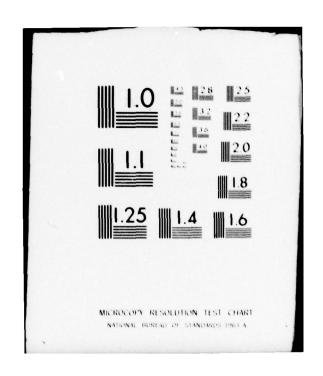
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SHIP SYSTEMS STAGING DIAGRAMS FOR FFG-7 CLASS SHIPS



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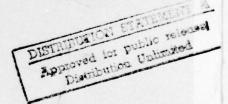
July 1979



Prepared for

PERA(CRUDES)
PHILADELPHIA NAVAL SHIPYARD
Philadelphia, Pennsylvania

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This report discusses the general properties of SSSEs (Section 2); points out the many ways SSSDs can be utilized by the various Navy activities (Section 3); and presents the SSSDs for the FFG-7 class ship (Section 4).

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SHIP SYSTEMS STAGING DIAGRAMS FOR FFG-7 CLASS SHIPS

July 1979

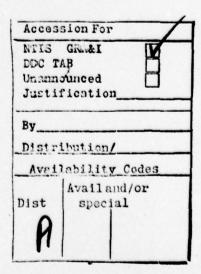
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ABBREVIATIONS

APL - Allowance Parts List ASW - Anti-Submarine Warfare CDC - Component Dictionary Code COSAL Coordinated Shipboard Allowance List CPCH - Controllable Pitch - Current Ship's Maintenance Project CSMP CWI Continuous Wave Illuminator DART - Detection, Action, Response Technique EIC Equipment Identification Code **EOSS** - Equipment Operational Sequencing System **FMP** - Fleet Modernization Program GT/GTRB - Gas Turbine HM&E - Hull, Mechanical & Electrical IFF Identification Friend or Foe I/O - Input/Output LAPL - Lead Allowance Parts List MDS - Maintenance Data System NAVAIR - Naval Air Systems Command NAVELEX Naval Electronics Systems Command NAVSEA Naval Sea Systems Command Naval Ships Engineering Center NAVSEC NAVSUP Naval Supply Systems Command PERA Planning and Engineering for Repairs and Alterations **PMS** - Planned Maintenance System POT&I - Preoverhaul Test and Inspection - Ship Alteration and Repair Package SARP Ship Equipment Configuration Accounting System SECAS SHIPALT - Ship Alteration SSDI Ship Systems Definition and Index SSSD - Ship Systems Staging Diagrams SWAB - Ship Work Authorization Boundary SWBS Ships Work Breakdown Structure SYSCOM Systems Command - Type Commander TYCOM

TTY

VERTREP

Teletype

- Vertical Replenishment

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1. INTRODUCTION

The Ship Systems Staging Diagram (SSSD), heretofore known as Ship Systems Definition and Index (SSDI), is an orderly identification and structuring of the systems and subsystems that make up a ship. By defining ship systems as well as their boundaries and interfaces, the SSSD provides a common language for communicating information about ship configurations. The SSSD is thus useful to all Navy activities involved in the life-cycle operation, maintenance, modernization, and support of ships.

The SSSD presented herein is a revised compilation for the FFG-7 class of Navy ships. It incorporates the latest changes to the coding identification of systems, subsystems, equipments, and components to bring them into conformance with the current SWBS/SWAB/SECAS Staging Index for Surface Ships. The Staging Index, and its supporting Component Dictionary Code, is compatible with the Ships Work Breakdown Structure and the Ship Work Authorization Boundary descriptions.

This report discusses the general properties of SSSDs (Section 2); points out the many ways SSSDs can be utilized by the various Navy activities (Section 3); and presents the SSSDs for the FFG-7 ship class (Section 4).

2. PROPERTIES OF SSSD

The hierarchical concept on which the Ship Systems Staging Diagram is based is illustrated in Figure 1. As can be seen, the SSSD is structured such that the summation of SSSD items at any level defines the total ship. An actual application of Figure 1, showing a typical ship breakdown from the major system to the sub-subsystem level, is presented in Figure 2.

The second secon

As illustrated by Figures 1 and 2, the SSSD is structured to:

- a. Provide a multi-level breakdown of the ship's configuration.
- b. Completely define the ship at each level.
- c. Contain no redundancies in its definition of the ship.
- d. Utilize the Ships Work Breakdown Structure. This provides a standard language based on the same nomenclature and coding system mandatory for use on a Navy-wide basis.
- e. Utilize a standard Navy Staging Index for fourth-level identification codes and a standard Navy Component Dictionary Code List (see Appendix A) for assigning fifth-level identification codes. The last two characters of the identifier are from this list, e.g., 2612M7.
- f. Tailor the SWBS to the configuration of a specific ship class. The ship class diagrams can in turn be tailored to the configuration of each ship within the class.

Figure 3 extends a portion of Figure 2 to an additional level of detail to demonstrate the information provided in the SSSD. As shown, the following are identified:

- a. System equipments
- b. System boundaries
- c. Shipboard maintenance work centers
- d. Unique seven-place alphanumeric EICs that have been assigned through 26 March 1979.

In some cases, notably for the more complex systems, this SSSD provides still further information in the form of line diagrams that depict:

a. Major hardware items within the system boundaries, and their interrelationships.

- b. The verbal description shown on the system diagrams for selected SWBS-coded items. Those systems which are complex and interface with other complex systems are diagrammed as Figure 4 indicates.
- c. The selected system's boundaries and interrelated SWBSs.

Although some of the line diagrams show functional relationships, their specific purpose is to aid in the identification of ship systems. For that reason, the diagrams are greatly simplified from the actual configuration.

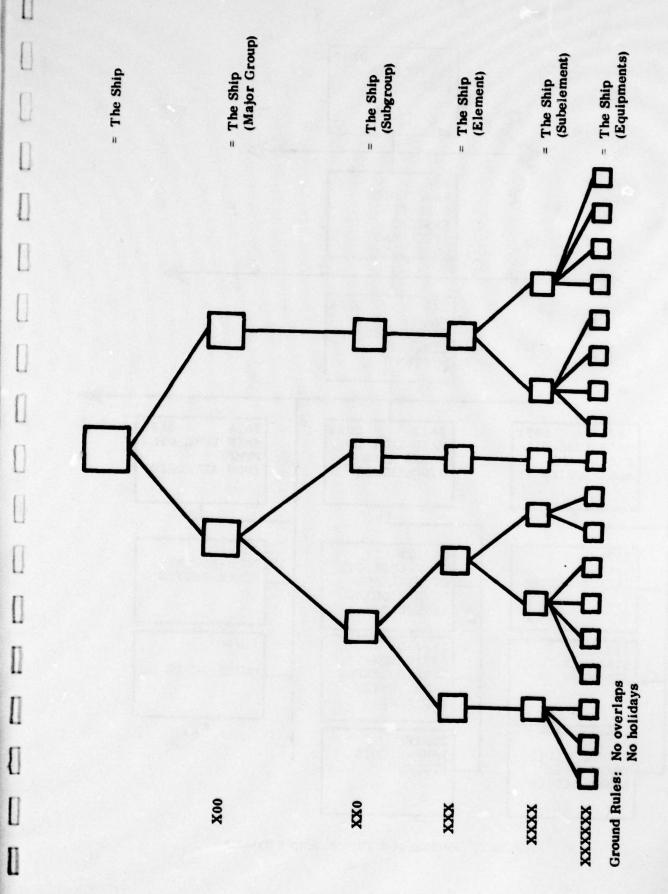


Figure 1. SSSD Concept

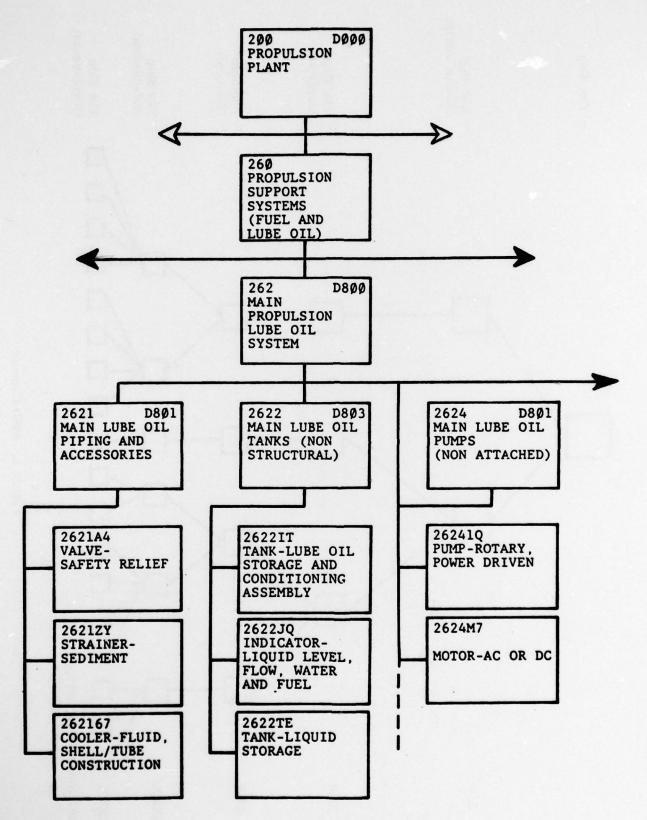


Figure 2. Portion of a Typical Ship's System

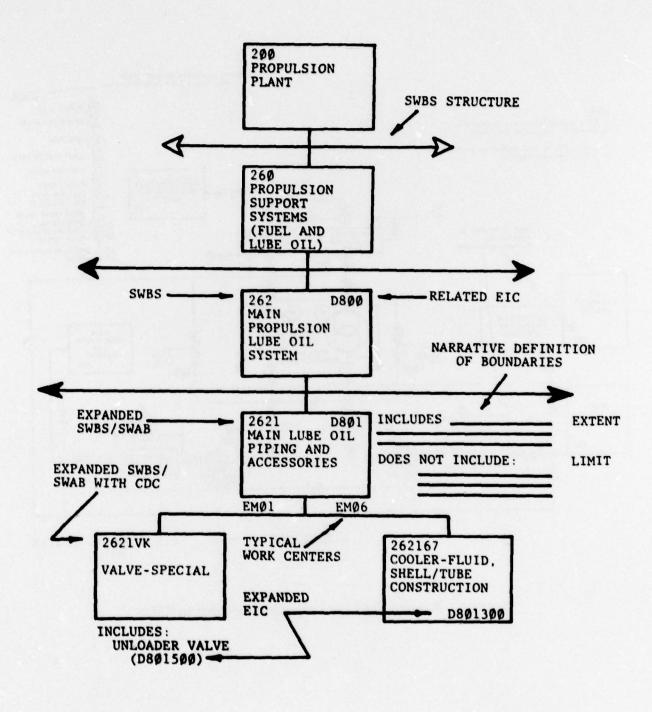


Figure 3. Example of System Diagrams Included in SSSD

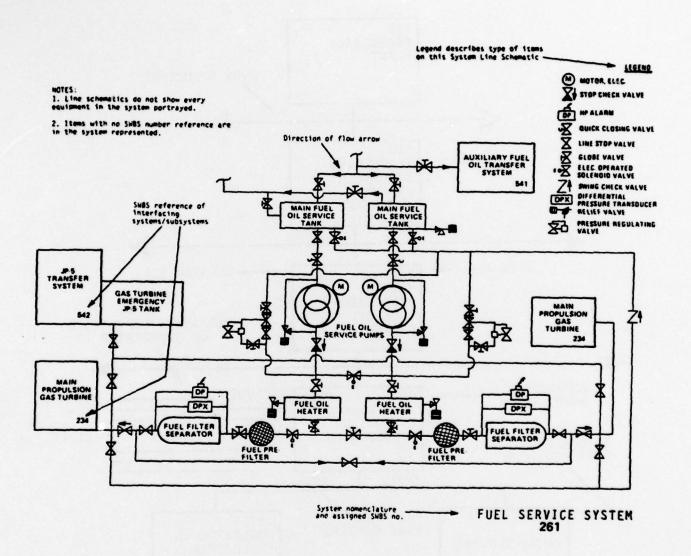


Figure 4. Example of Line Diagrams Included in SSSD

3. USES OF SSSD

Throughout a ship's life, ship's force personnel submit a vast amount of system, equipment, and parts information to their type commander and fleet support activities. Requests for alteration, reports of maintenance action, work requests, and parts requisitions are but a few examples. In each instance the submitted information must be related to a specific, definable portion of the ship.

In carrying out their responsibilities, the type commander and the support activities must not only identify a specific item within the total ship, but also be aware of its interfaces. In planning alterations or modifications, for example, the technical systems commands (NAVSEA, NAVELEX, NAVAIR) must be able to identify the various systems that will be affected by a particular change to a ship's configuration. Also, when preparing for overhaul or other availabilities, the type commander and repair activities must be able to organize a work package on the basis of specific as well as interrelated ship systems. This is done to ensure that the work package is completely and effectively defined.

Since so many activities are involved in supporting the ship, it is necessary that both ship and support personnel use a single, uniform language when communicating configuration information. The Ship Systems Staging Diagram provides this common language by describing a specific ship in terms common to all ships of the fleet. Potential uses of the SSSD are outlined below.

3.1 SSSD SUPPORT TO SHIP'S FORCE

3.1.1 Maintenance

- a. Serves as a checklist for planning and conducting inspection.
- b. Provides the basis for comparing repair items with alterations.
- c. Aids in establishing repair priorities.
- d. Assists in identifying shipyard, intermediate maintenance activities, and ship's force interfaces.
- e. Assists in making manpower assignments by ensuring that all systems of the ship are considered.
- f. Aids ship's force in "buttoning up" all systems for post-repair testing.
- g. Aids in alteration planning and analysis by showing possible interfaces in terms of various ship systems.

- h. Aids in standardizing shipboard validation procedures.
- i. Provides a means of identifying deficiencies in shipboard documentation such as the Coordinated Shipboard Allowance List (COSAL), Planned Maintenance System (PMS), etc.
- j. Provides a capability for reducing duplication in validation programs.
- k. Assists in identifying Equipment Identification Codes (EIC) necessary for Current Ship's Maintenance Project (CSMP) and Maintenance Data System (MDS).
- 1. Provides a standard language for maintenance documentation.
- m. Provides a common set of system descriptions for the development of maintenance instructions (PMS) and operating instructions (Equipment Operational Sequencing System, EOSS).

3.1.2 Operation

- a. Serves as a checklist for determining the completeness of EOSS coverage.
- b. Provides a means of identifying interrelationships among operating systems.
- c. Identifies the boundaries for system testing.
- d. Provides a means of determining test equipment and support requirements.

3.1.3 Training

- a. Provides a disciplined method for displaying a ship's configuration, thereby identifying training requirements from the equipment through the system level.
- Supports training shipboard operation/maintenance personnel in ship systems and system interfaces.

3.2 SSSD SUPPORT TO OTHER NAVAL ACTIVITIES

3.2.1 PERAs/Shipyards/Industrial Activities

- a. Defines ship systems for alteration and repair planning.
- b. Provides a standard indexing language for:
 - Ship Alteration and Repair Package (SARP)
 - Specification preparation
 - Cost estimating
 - Drawing numbering
 - Material identification and ordering

- Pre-Overhaul Test and Inspection (POT&I) planning and organization
- Management information systems.
- c. Assists in determining priorities of work by displaying the affected equipment in relation to its system.

3.2.2 Ship Equipment Configuration Accounting System (SECAS)

- a. Provides a standard structure for total shipboard validation.
- b. Provides information for determining the desired level of validation.

3.2.3 Technical System Commands (NAVSEA, NAVELEX)

- a. Aids in determining the SWBS identification of alterations for inclusion in shipalt records and subsequently in other Navy data bases.
- b. Identifies ship systems such that the impact of alterations can be determined and decisions made concerning recommended priorities for inclusion in the Fleet Modernization Program (FMP).
- c. Provides a means for ensuring that standard failure-data correlation and analysis is performed to the desired level.

3.2.4 Type Commanders (TYCOMs)

- a. Aids in determining work priorities by displaying the affected equipment in relation to its system.
- b. Identifies the system such that the impact of alterations can be determined and decisions made concerning recommended priorities for inclusion in the FMP.
- c. Enables the TYCOM to properly identify and budget the system for repairs.

3.2.5 Naval Ships Engineering Center (NAVSEC)

- a. Provides a vehicle for ensuring that standard failure-data correlation and analysis is performed to the desired level.
- b. Defines the systems for design consideration and subsequent corrective measures such as the Detection, Action, Response Technique (DART) program.
- c. Provides information for determining the required level of repair parts support requirements.

3.2.6 Fleet Support Activities

- a. Identifies shipboard systems as an aid in determining personnel and material requirements in response to solving specific ship problems.
- b. Serves as a tool for establishing required support capabilities (people and equipment).

4. SSSD FOR FFG-7 CLASS SHIPS

4.1 SSSD INDEX

The SSSD for FFG-7 class ships is presented in the following pages, in the indicated order.

Index Diagrams	Page
Overall	19
100 — Hull Structure	20
200 — Propulsion Plant	21
300 — Electric Plant	22
400 - Command and Surveillance	23
500 - Auxiliary Systems	24
600 - Outfit and Furnishings	25
700 - Armament	26
800 - Integration/Engineering	27
900 — Support Services	28
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400 - Command and Surveillance	83
500 — Auxiliary Systems	137
600 - Outfit and Furnishings	203
700 — Armament	229
800 - Integration/Engineering	241
900 - Support Services	247

The Legend of Symbols applies to the line diagrams that accompany certain of the system diagrams.

4.2 GENERAL COMMENTS

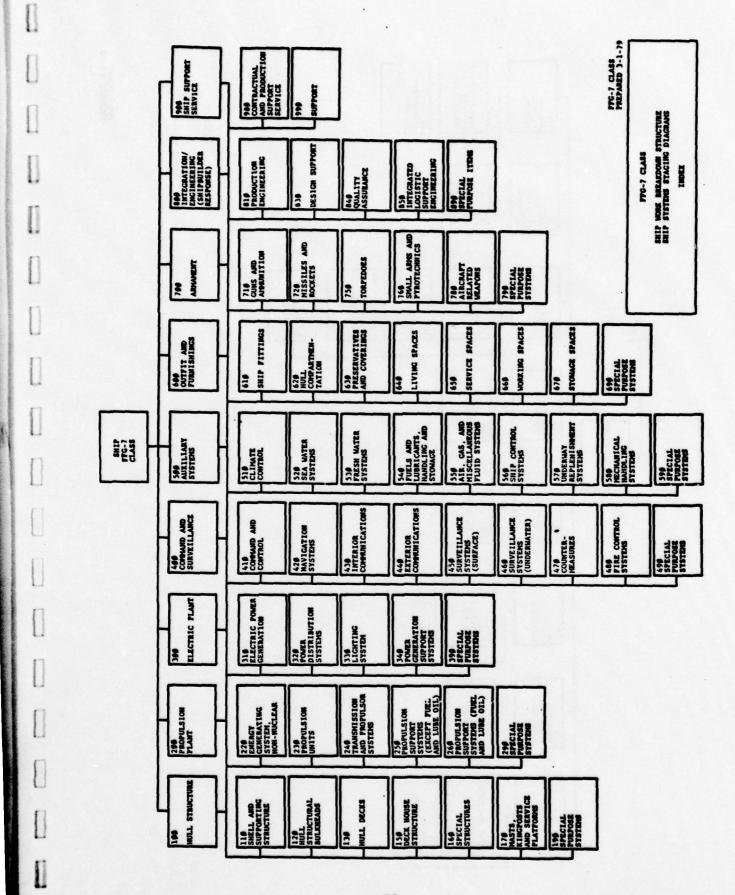
The following general comments apply to the FFG-7 class SSSD.

a. The SSSD is structured to encompass the entire FFG-7 class, i.e., all identified combinations of systems and equipments have been included. Individual ships will not necessarily have all identified components because of such factors as ship alterations that have/have not been accomplished, variations due to construction differences, etc.

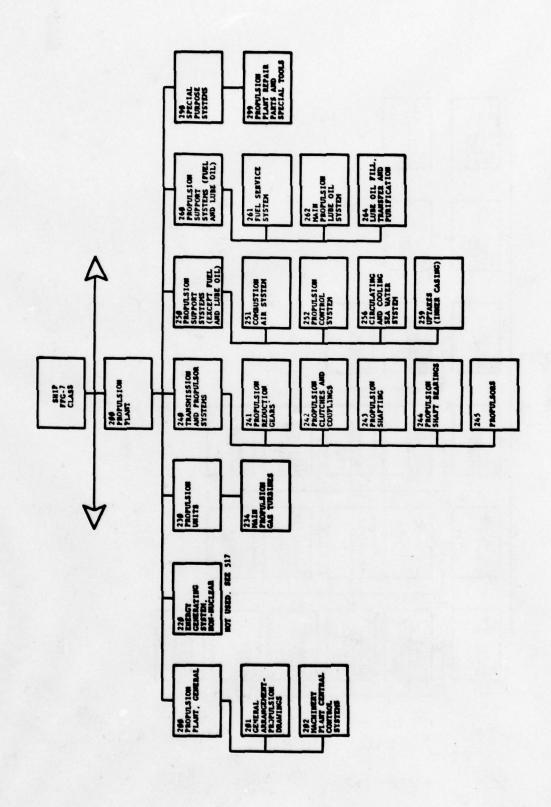
- b. In each SWBS group, elements X01 through X09 denote general requirements. These non-hardware elements are indicated by dashed blocks.
- c. To maintain continuity of having APL number identifiable equipments/components at the fifth level, some element titles are repeated at the fourth and fifth levels and appropriately numbered, e.g., element 163.
- d. The term "With System", or "W.S.", indicates that the item is coded with the system of which it is a part or which it serves.
- e. EIC cross-references are entered only in, or under, blocks with a direct cross-reference, i.e., same system, subsystem, and/or equipment.
- f. Work center assignments are representative. Use of the SSSD for specific ships of the class will require verification of applicable work centers.
- g. The following guidelines have been applied in the assembly of the FFG-7 class SSSD to classify equipment components and accessory items, and may be further utilized to categorize items not specifically addressed in this compilation:
 - Foundations, interconnecting and local power cabling to protective devices, and mechanical and non-general-purpose electrical hull fittings are included in the supported system.
 - Penetrations and inserts into structural members are included in the requiring system.
 - · Piping and electrical cable markings are included in the served system.
 - Hydraulic control valves and associated hydraulic piping, including hydraulic valve actuators, cylinders, pumps, and motors, are considered part of the system in which found.
 - Valve actuators (electrical, pneumatic, and mechanical) are included in the supported system.
 - Service air piping normally includes all piping up to and including the isolation valve off the service air header. However, in those cases where piping runs directly to the serviced equipment, the system interface is at the inlet flange of the unit.
 - Seawater and auxiliary fresh water piping systems that support electronic equipment heating and cooling subsystems include piping and associated valves up to and including the flanges that interface with the subsystems.
 - Electric motors are included in the driven system, along with foundations, resilient mounts, controllers/starters (when not a part of a group-control switchboard), and the local cabling to power panel protection devices.

- Electronic signal cabling that cross-connects two or more systems, such as gyrocompass information or blanking pulses, is included in each of the supported systems (radio, sonar, ECM, radar, etc.).
- Built-in tanks that have at least one surface homogeneous with the principal hull structure are included in the structural group. All other tanks are considered part of the served system.
- Air duct air-conditioning coils, including inlet-outlet flanges, are considered part of the ventilation system. Piping to these coils is included in either the chilled water or air-conditioning system as appropriate.
- Items such as hull fasteners, pipe hangers, handwheels, label plates, flexible connections, and resilient/sound isolation mounts are considered part of the supported system.
- Elements attached to or integral parts of a system component are generally considered parts of the component and belong to that system (e.g., gas turbine lube oil and fuel pumps and sensor devices) except in those few cases where SWBS grouping calls for separate treatment.
- Attached or local indicating instrumentation is included in the supported system. Remote reading instrumentation, where part of a generalized indicating system serving more than one individual system, 1) will be grouped with the console/switchboard of which it is a part, or 2) may be a part of an interior communications sensing system.
- Fluid coolers to the inlet/outlet flanges for the heat removal medium are included in the system having the requirement for heat removal.
 A heat exchanger is generally grouped with the system that receives the major benefit from its use, or which could not function without it.
- The energy storage subsystems (storage batteries, trays, holddowns, cabling, automatic battery rechargers, etc.) have been included with the associated systems. This logic has been applied to energy storage (battery) subsystems in ship's boats, emergency lanterns, torpedoes, gyrocompass, ship's service telephone system (when installed), etc.

SHIP SYSTEMS STAGING DIAGRAMS FOR FFG-7 CLASS SHIPS



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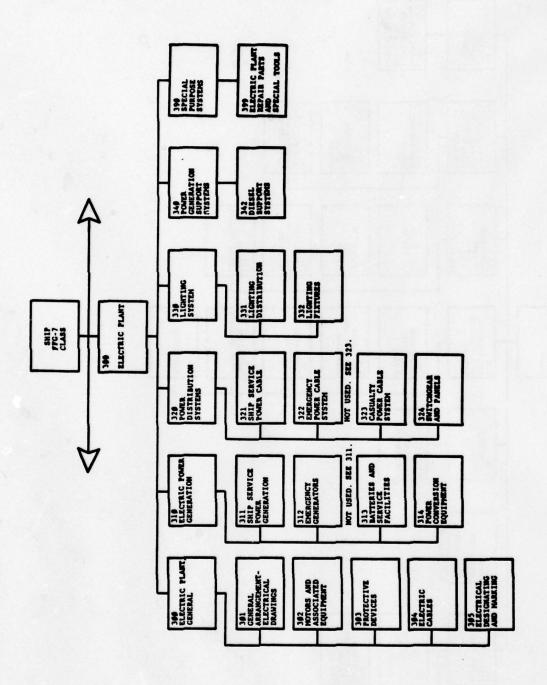


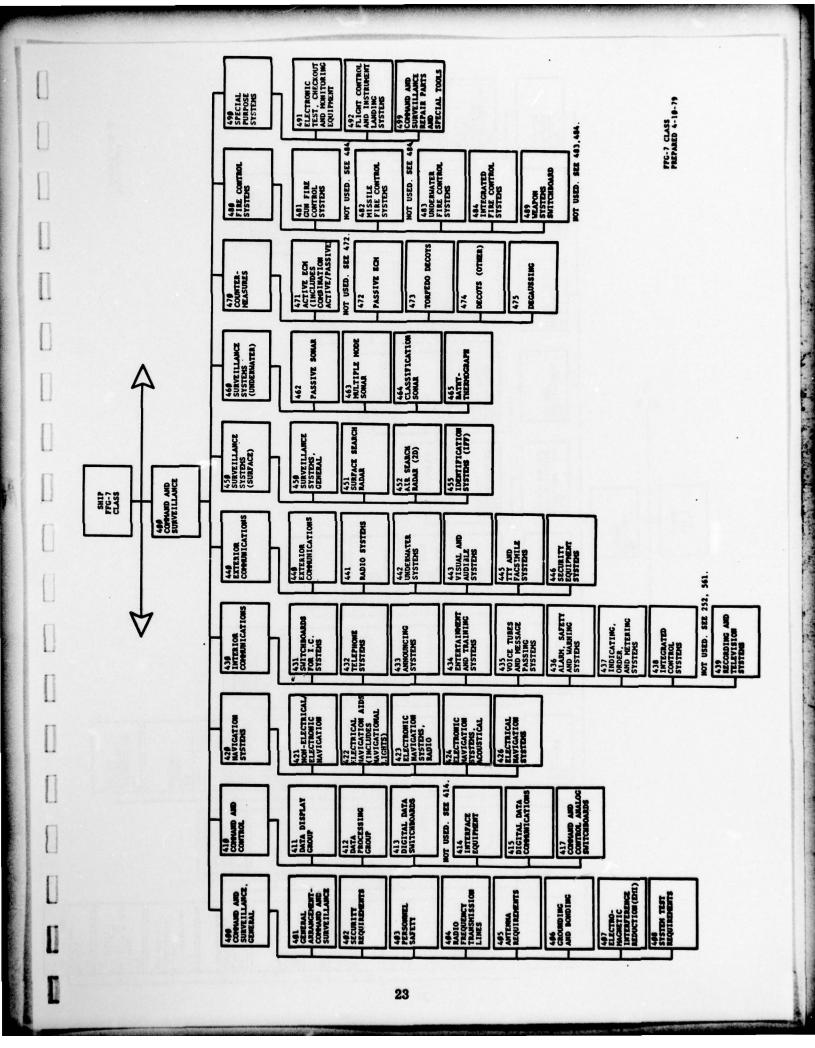
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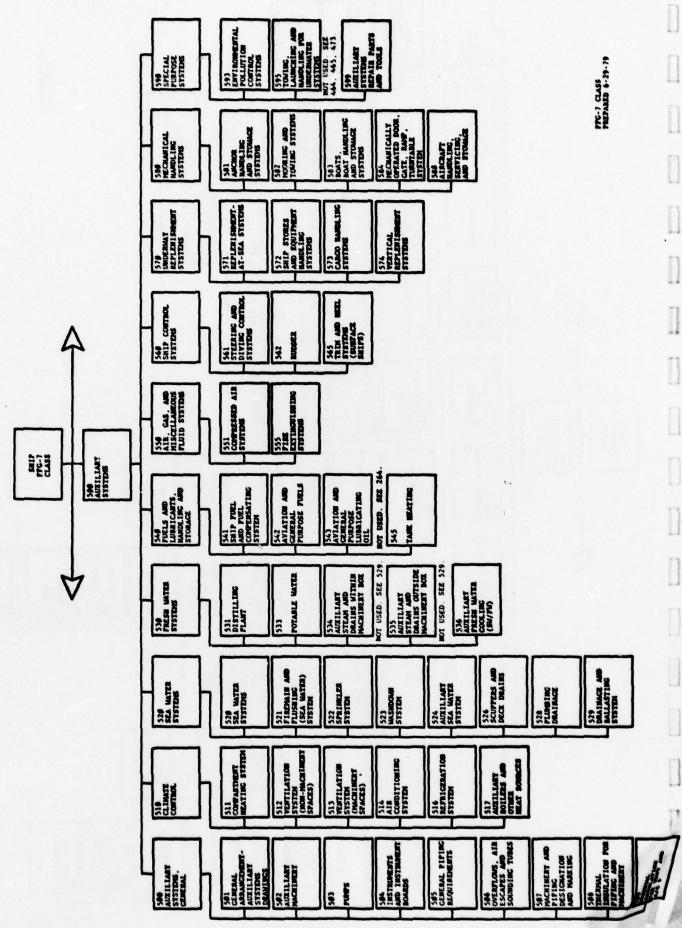
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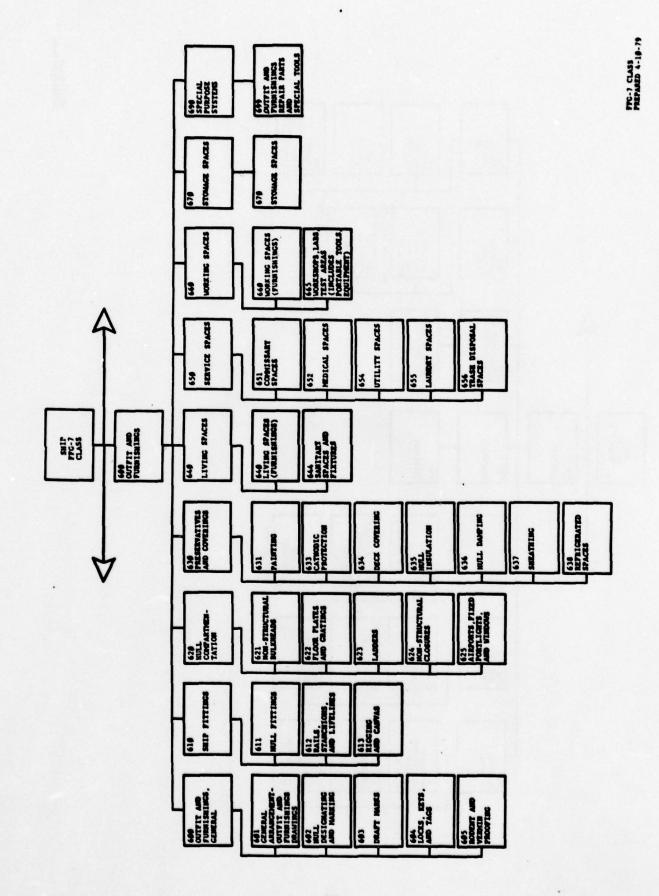
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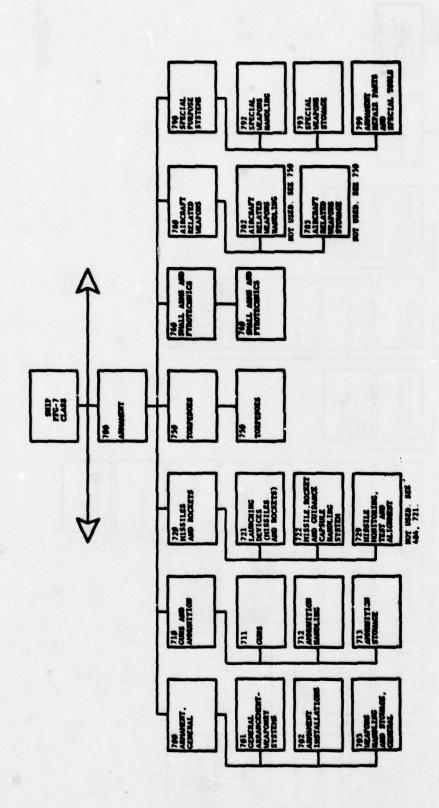
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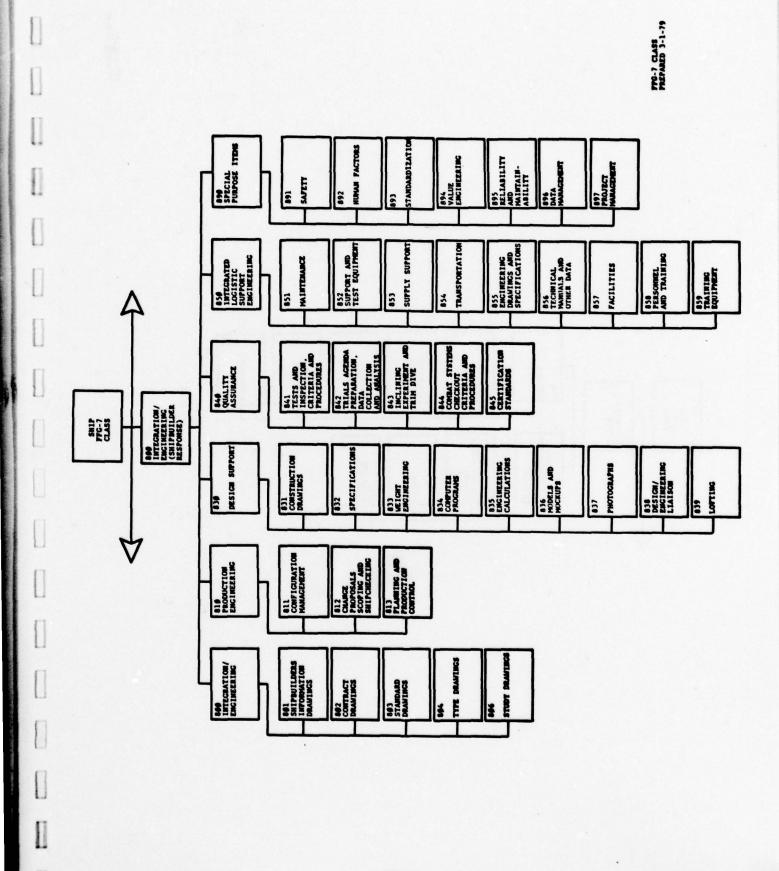




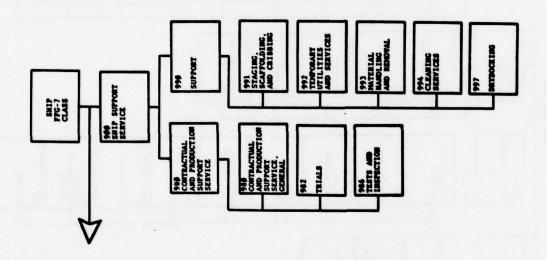






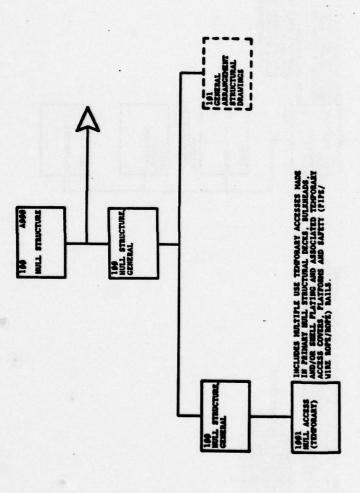


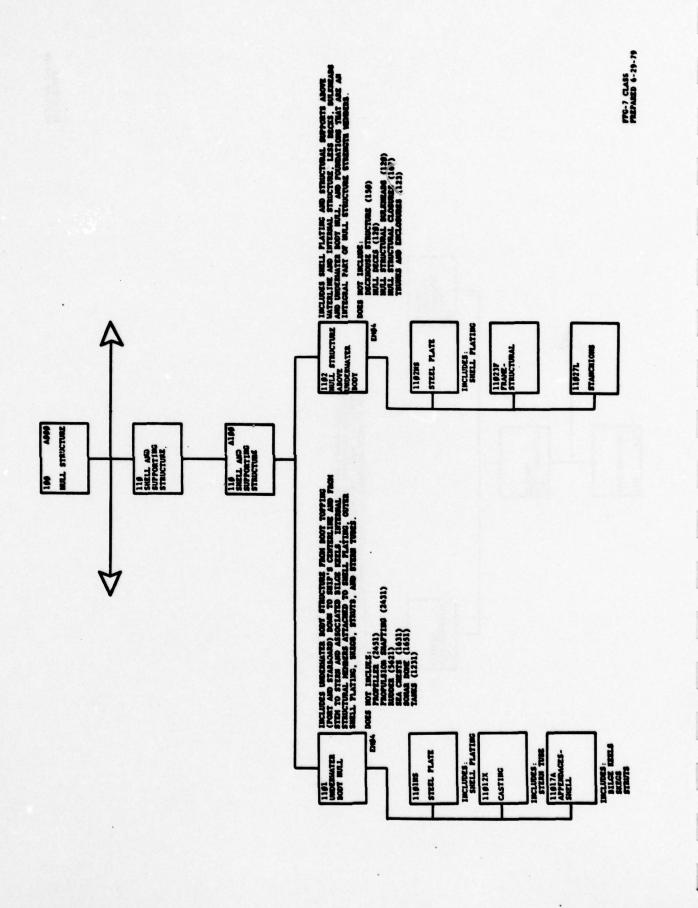
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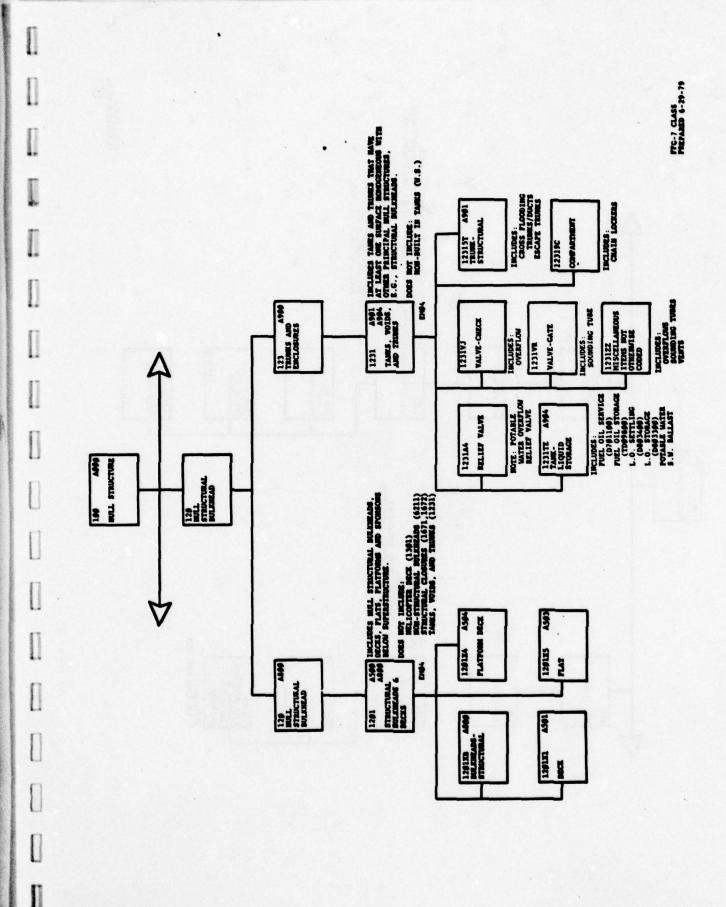


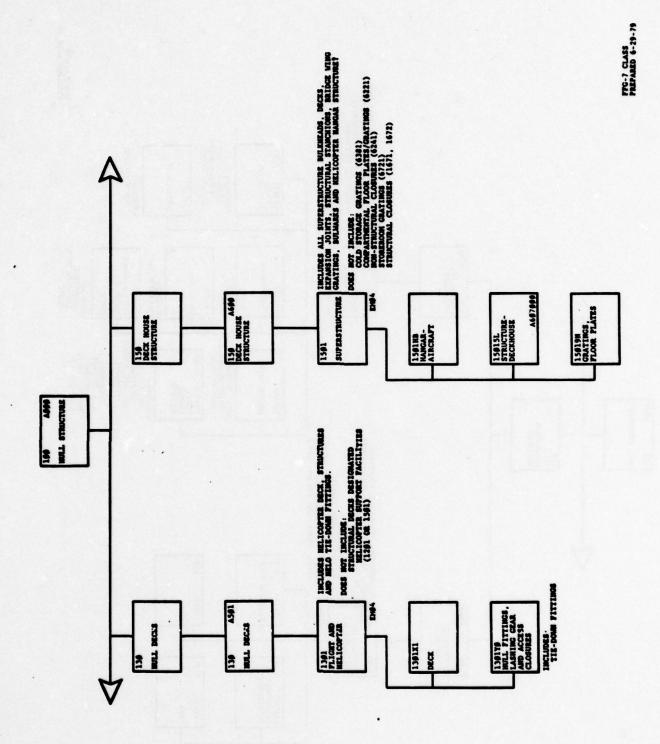
LEGEND OF SYMBOLS FOR LINE SCHEMATICS

	G	GENERATOR		HIGH PRESSURE ALARM	早	RELIEF VALVE
П	M	AIR MOTOR	(P)	VACUUM PRESSURE GAUGE	目	SERVO RELIEF VALVE
L	0	MOTOR FLECTRIC	P	PRESSURE GAUGE	日	WATER REGULATING VALVE
П	(M)	MOTOR, ELECTRIC	T	TEMPERATURE GAUGE	经	PRESSURE REGULATING/ FLOW CONTROL VALVE
	(MT)	TRAIN MOTOR	DX	TEMPERATURE DETECTOR		UNLOADING VALVE
	MER	EXTEND & RETRACT MOTOR		RESISTANCE TEMPERATUR	ESV	SEQUENCING VALVE
			7	THERMOSTAT BULB	*	BALANCING VALVE
	P	HAND RATCHET	TS	TEMPERATURE SWITCH		RECIRCULATING BYPASS VALVE
L		FILTER	13		~⊠	SOLENOID VALVE
			×		×	SOLENOID VALVE
L		DUPLEX FILTER	PS	PRESSURE SWITCH	多	THREE WAY VALVE, SOLENOID OPERATED
П	\boxtimes	DUPLEX STRAINER	\bowtie	VENTURI	EM	ELECTRIC MOTOR OPERATED VALVE
П	(F/S)	FILTER SEPARATOR	Z	REDUCER		ELECTRIC MOTOR OPERATED BUTTERFLY VALVE
	9		1,1	ORIFICE	X	BUTTERFLY VALVE
L	•	DRYER	<u></u> -	ORIFICE WITH	圣	MANUAL OPERATED
	0	UCATED	T	HOSE CONNECTION	3	BUTTERFLY VALVE PRESSURE REDUCING
	0	HEATER		HOSE CONNECTION	翌	BUTTERFLY VALVE
	GTRB	GAS TURBINE		ELEV HOOF CONNECTION	₽	SOLENOID PILOT OPERATED FLOW CONTROL
	RSR	READY SERVICE RING		FLEX HOSE CONNECTION	网	BUTTERFLY VALVE
П	(A)	CONTROL WHEEL	\mathbf{Z}	STOP LINE VALVE	*	TEMPERATURE REGULATING VALVE
П	0		图	STOP VALVE	4	
L	(RA)	RUDDER ANGLE RECEIVER	X	LOCKED SHUT VALVE	TEV	THERMOSTATIC EXPANSION VALVE
	\boxtimes	RUDDER ANGLE TRANSMITTER	*		7	PRIORITY VALVE
	0	CIRCUIT RREAKER	*	SAMPLING VALVE	及	
L	0		Φ\(\overline{\pi}\)	NEEDLE VALVE	区	GLOBE STOP CHECK VALVE
П	(S)	SHED BREAKER	$\stackrel{\triangleright}{\Rightarrow}$	GLOBE VALVE	X	STOP CHECK VALVE
L	J R	SALINITY CELL	國際格內格	QUICK CLOSING VALVE	区	LINE CHECK VALVE
O	KS	KING SOLENOID	A C		17	SWING CHECK VALVE
L	X		<u>~</u>	GATE VALVE	0	~ wa
	PT	PRESSURE TRANSDUCER	X	GATE VALVE DECK OPERATED	8	PUMP
	DPX	DIFFERENTIAL PRESSURE TRANSDUCER	\otimes	REMOTE OPERATED VALVE		

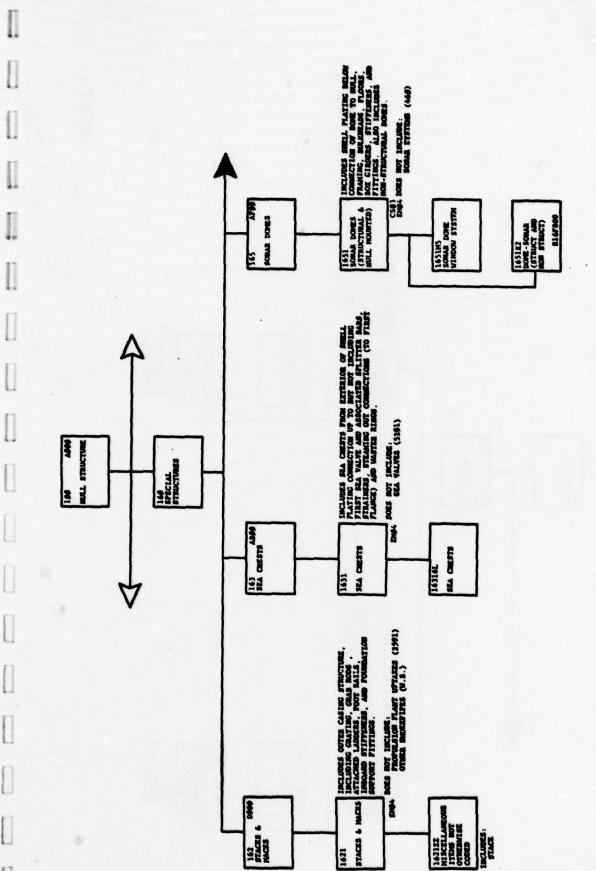




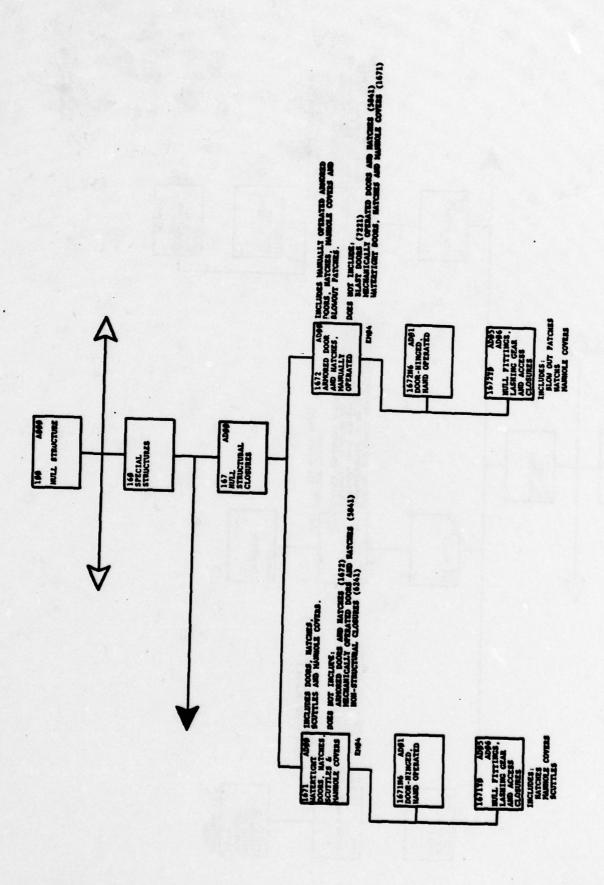




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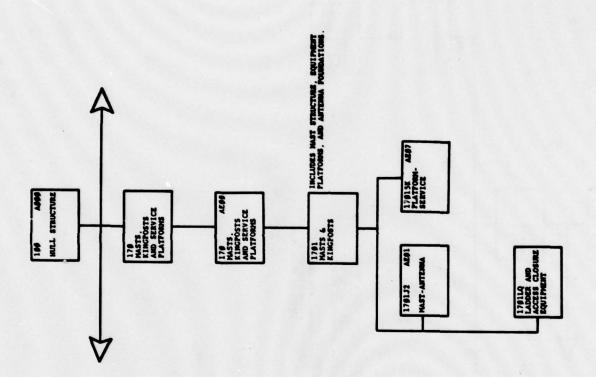


PPG-1 CLASS PREPARED 6-29-79



FTG-7 CLASS PREPARED 6-29-79

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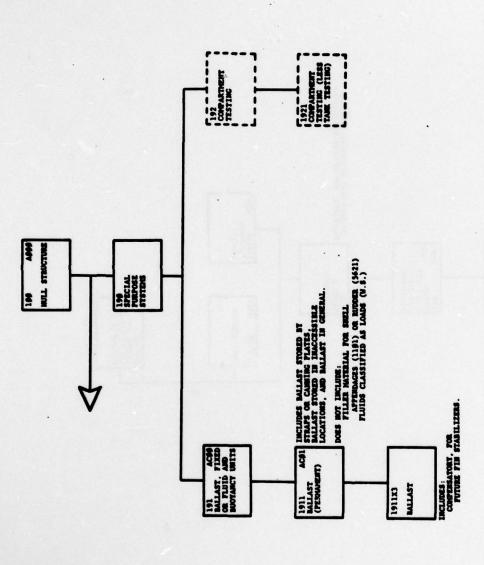
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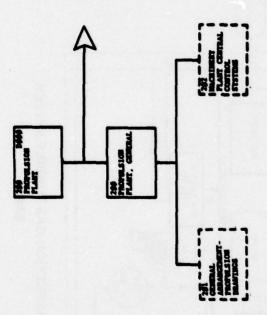
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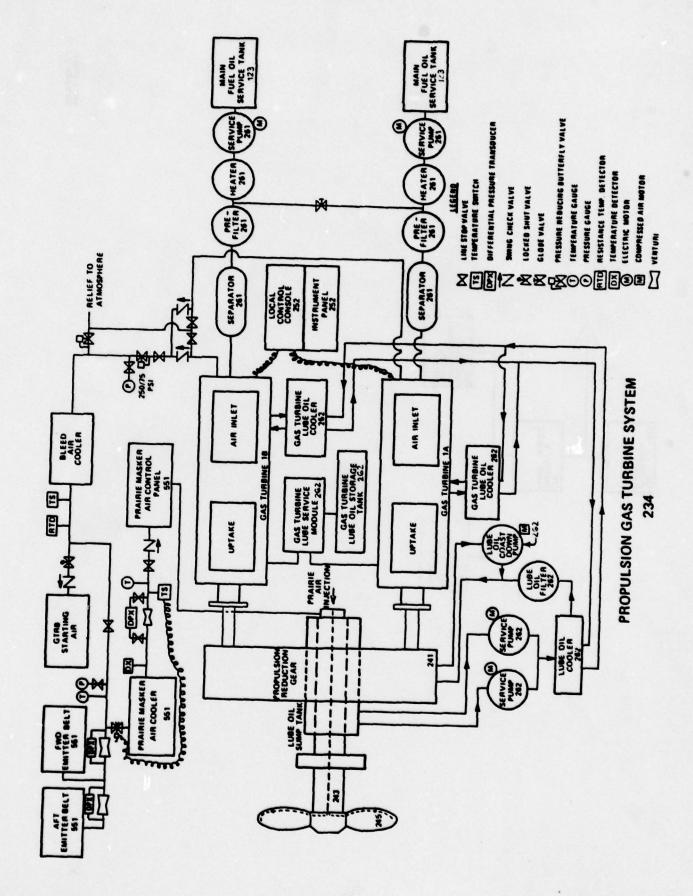
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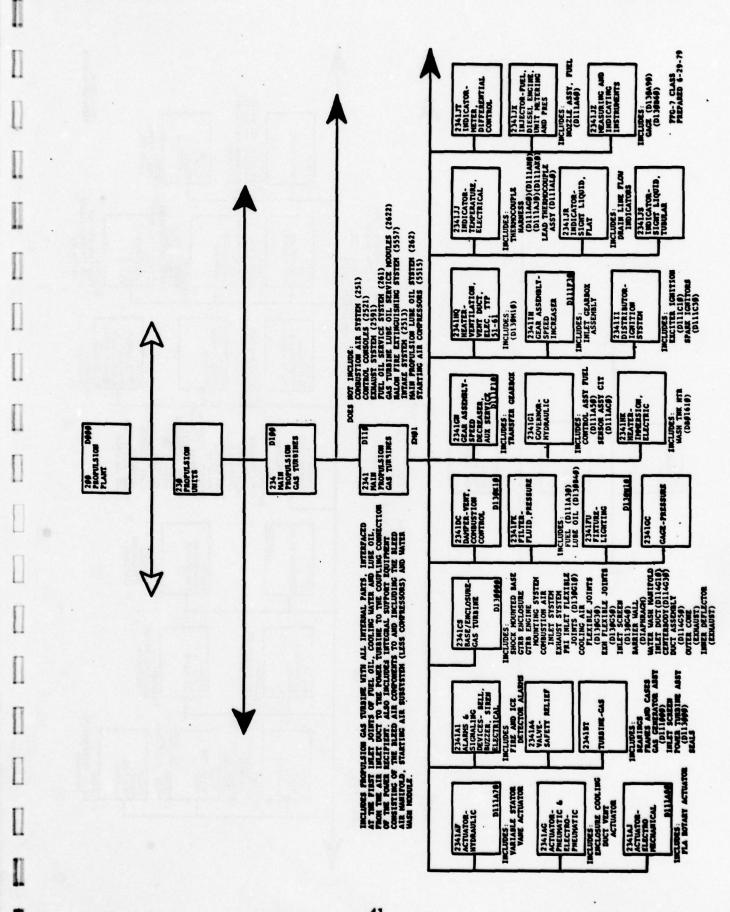
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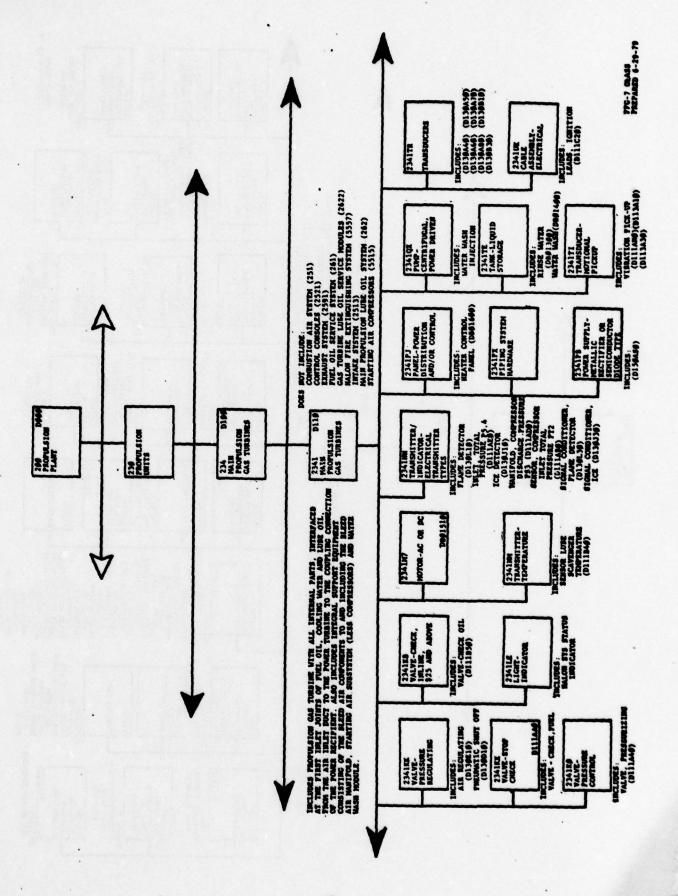
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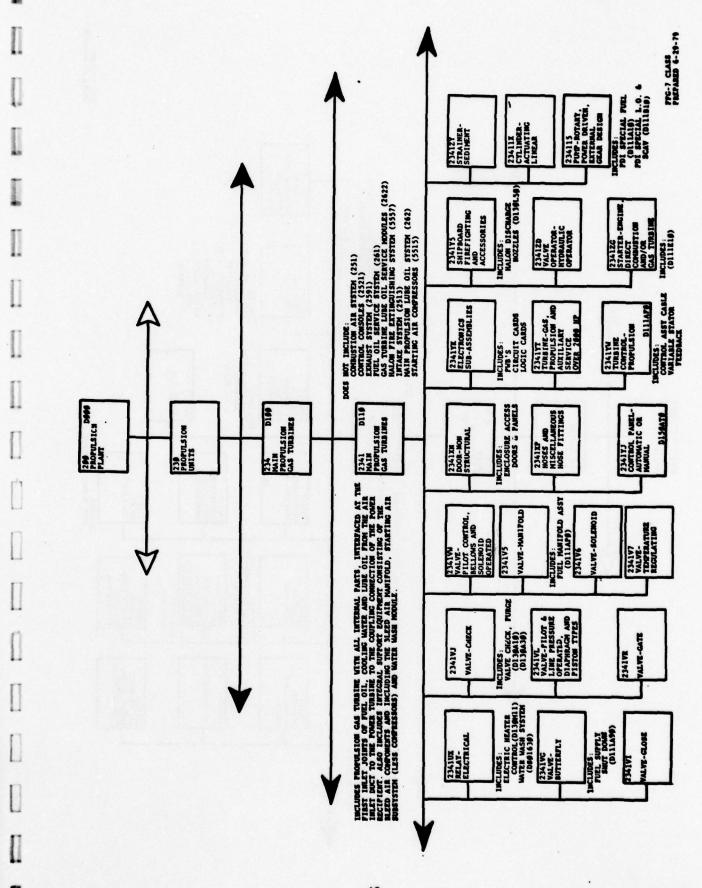
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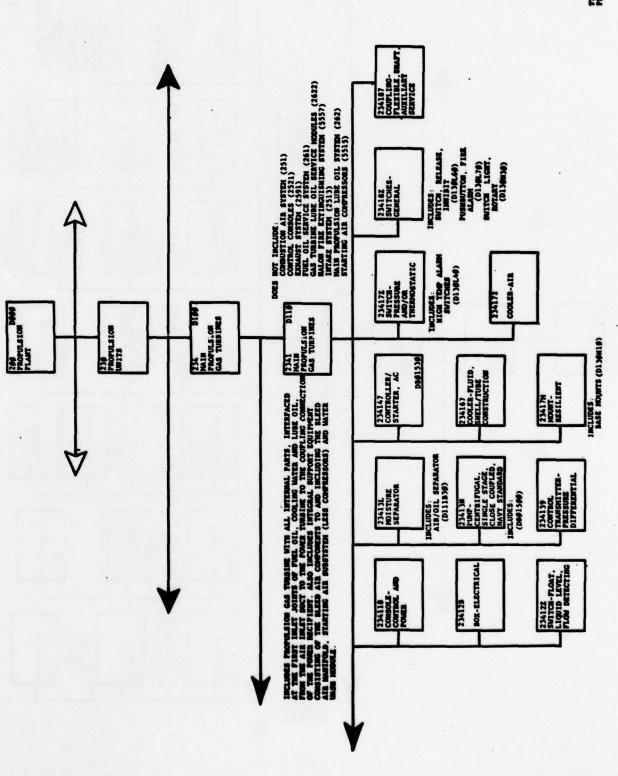
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PREPARED 6-29-79

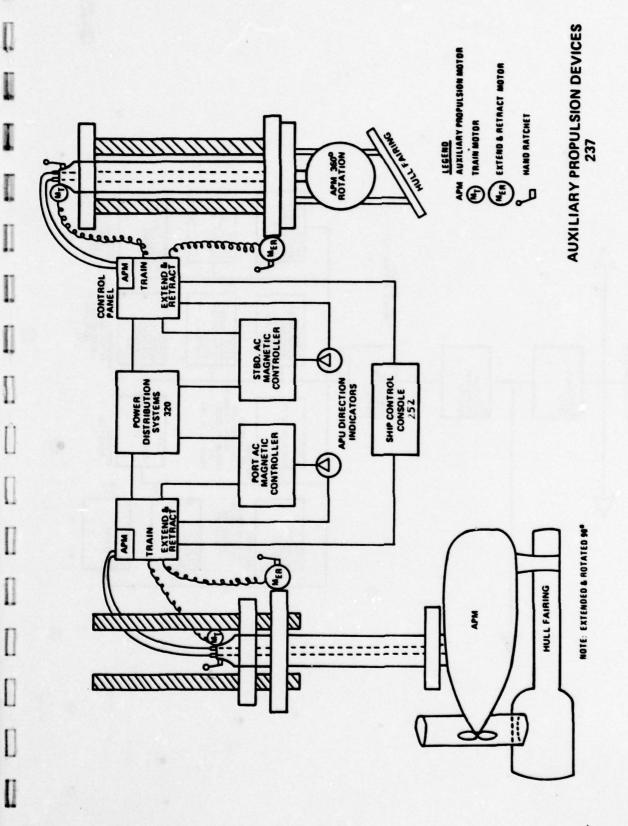
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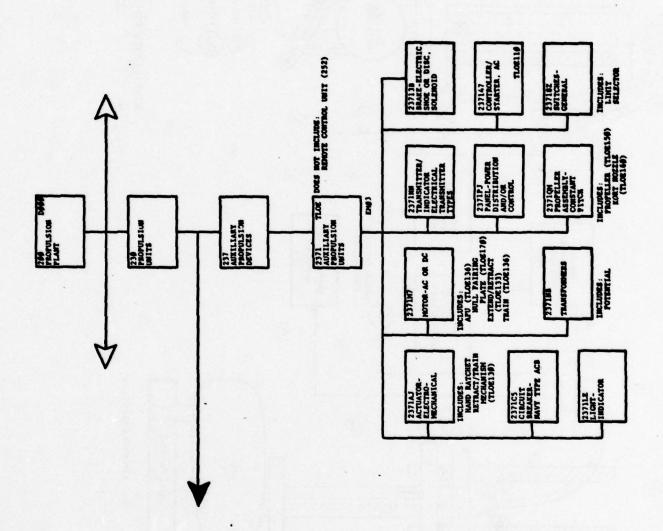
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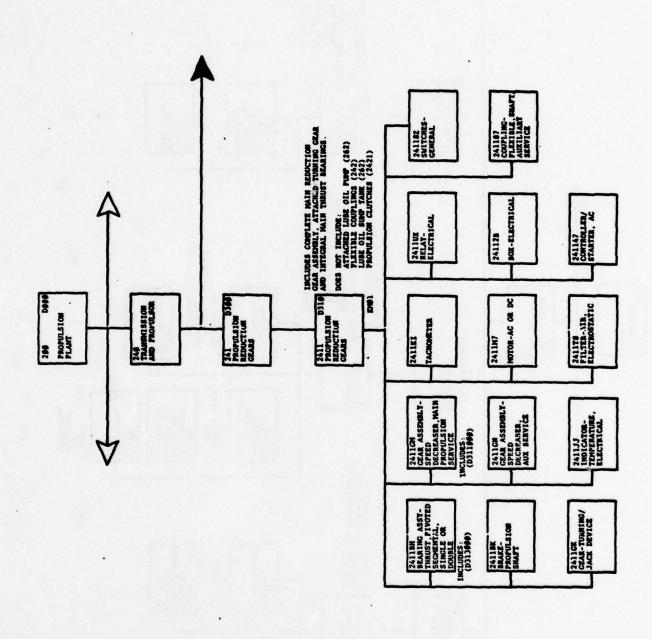
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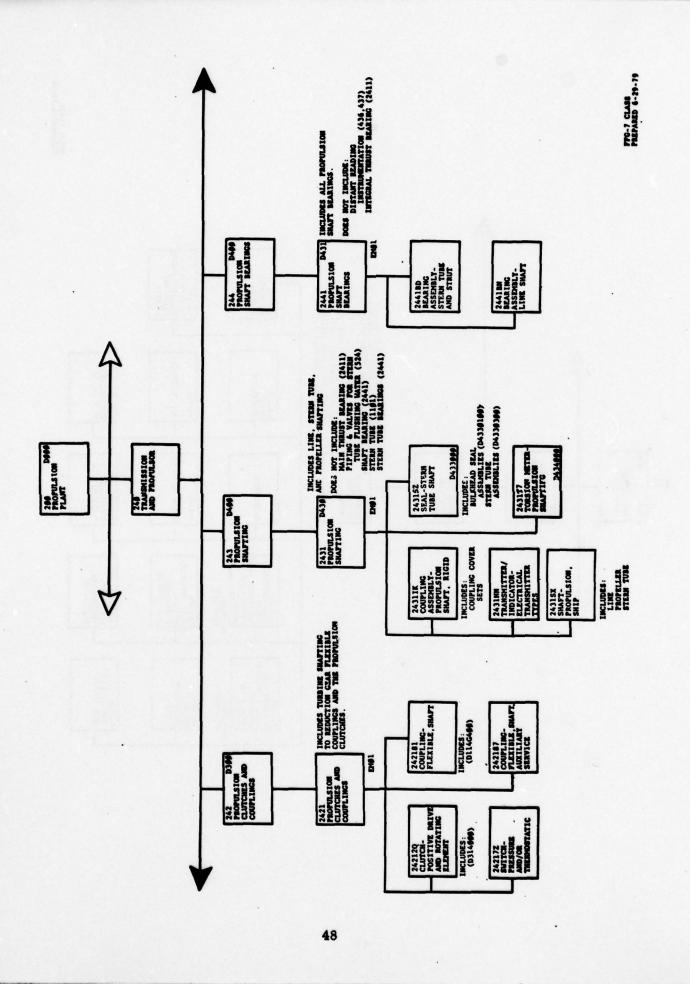
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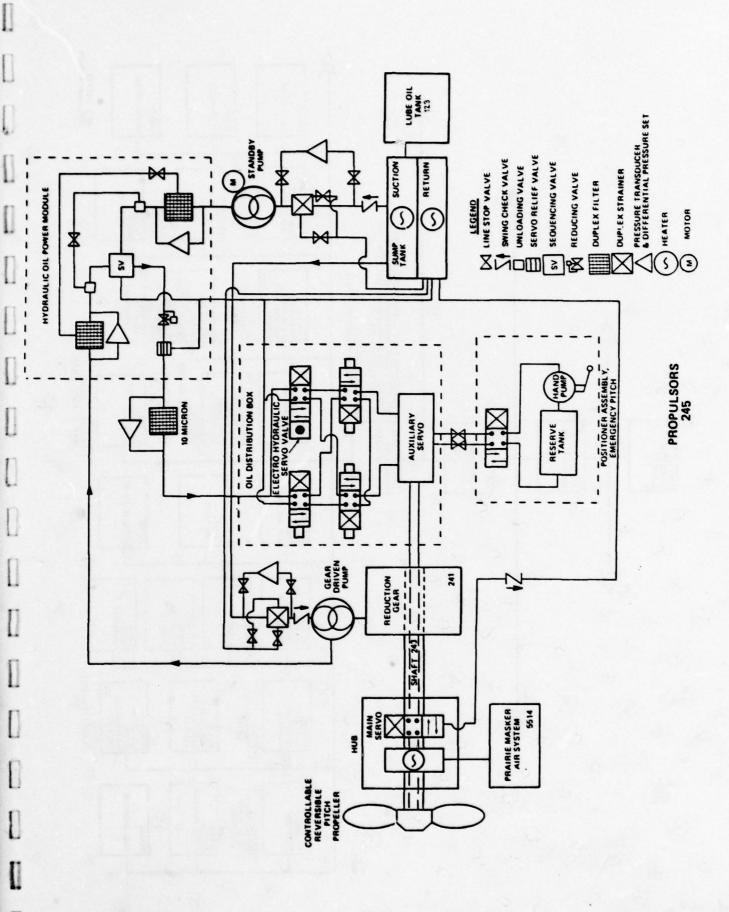
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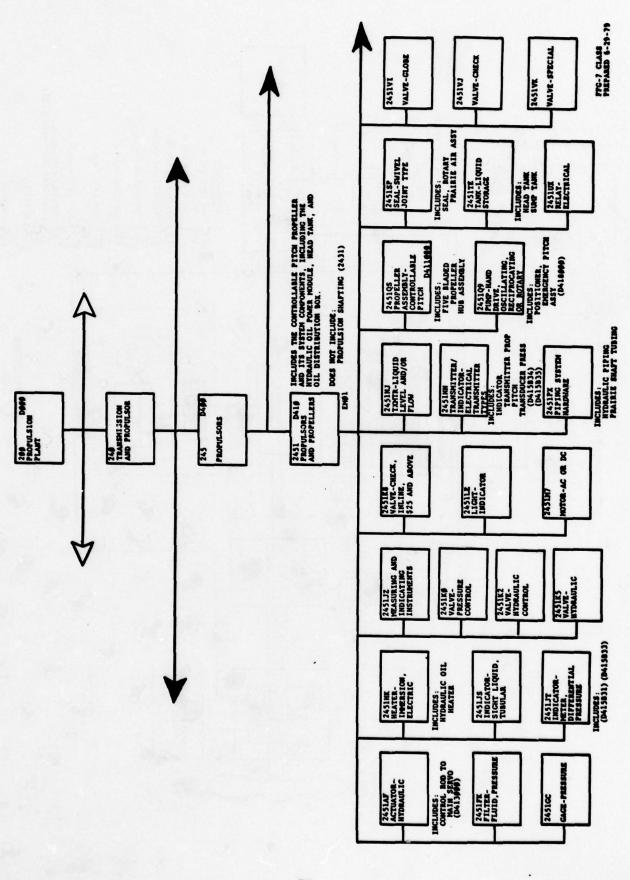
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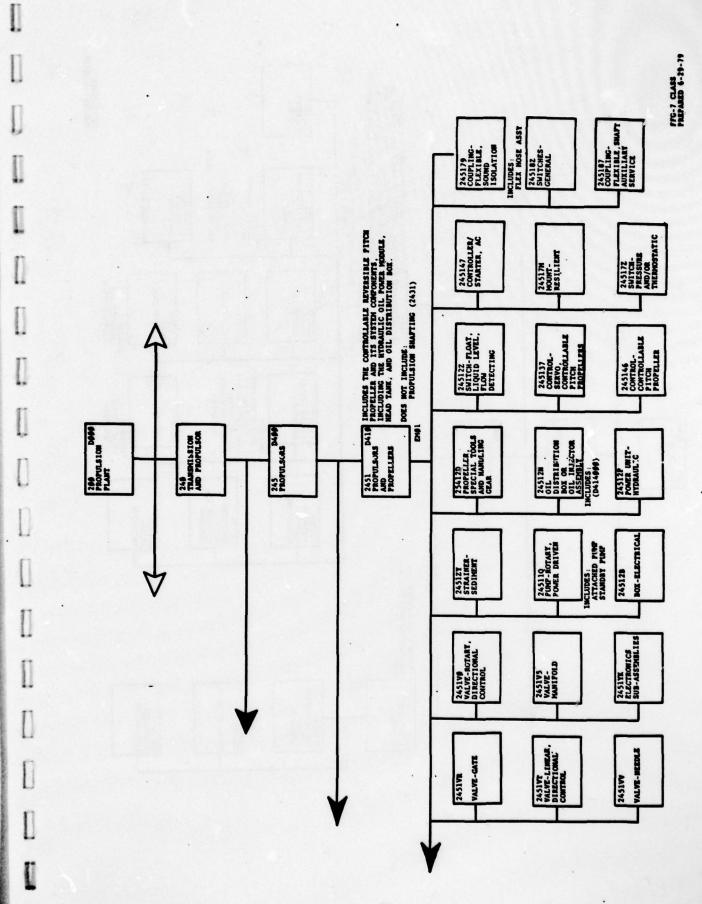
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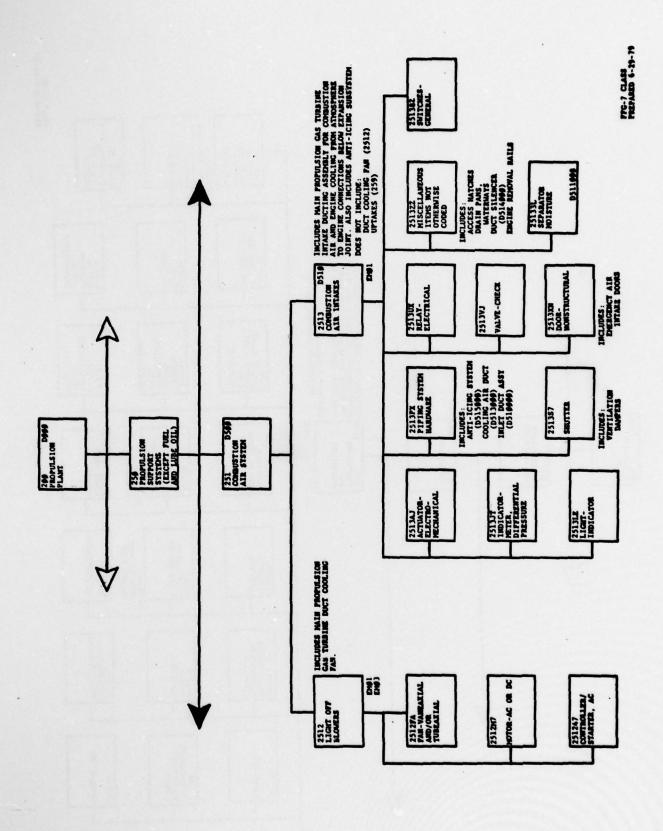
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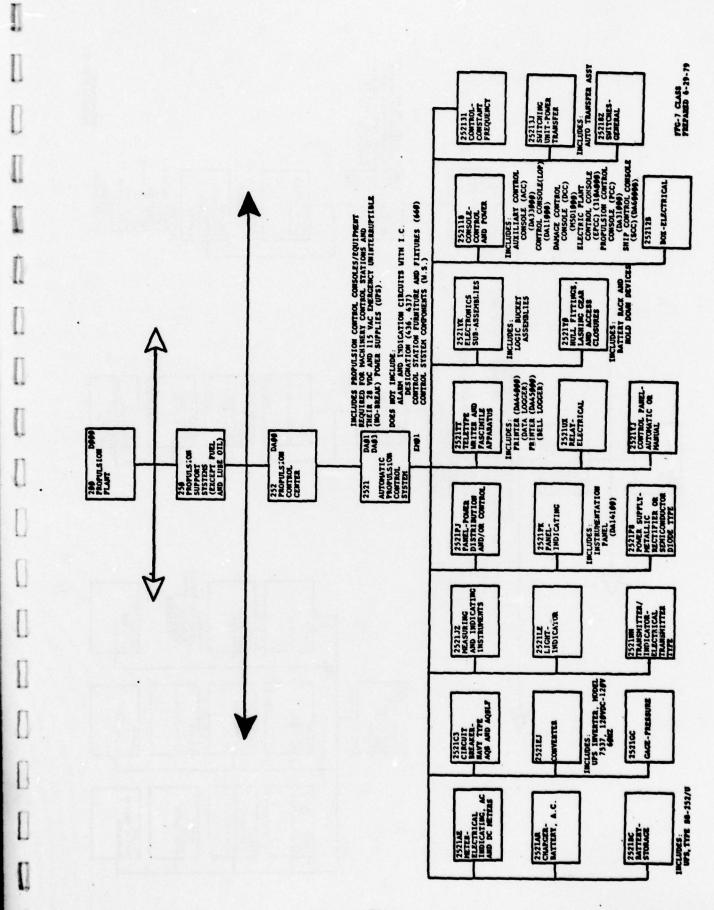


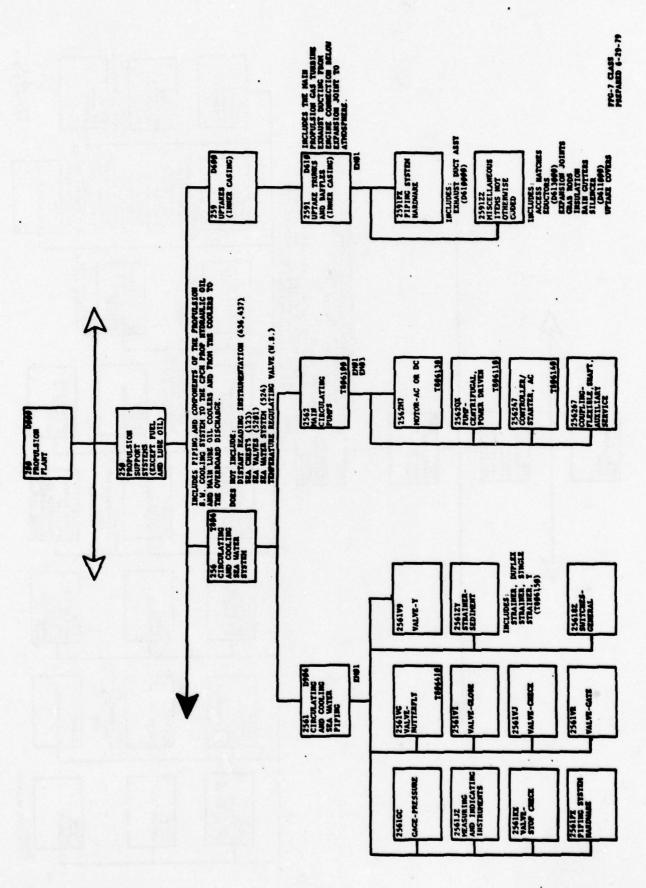
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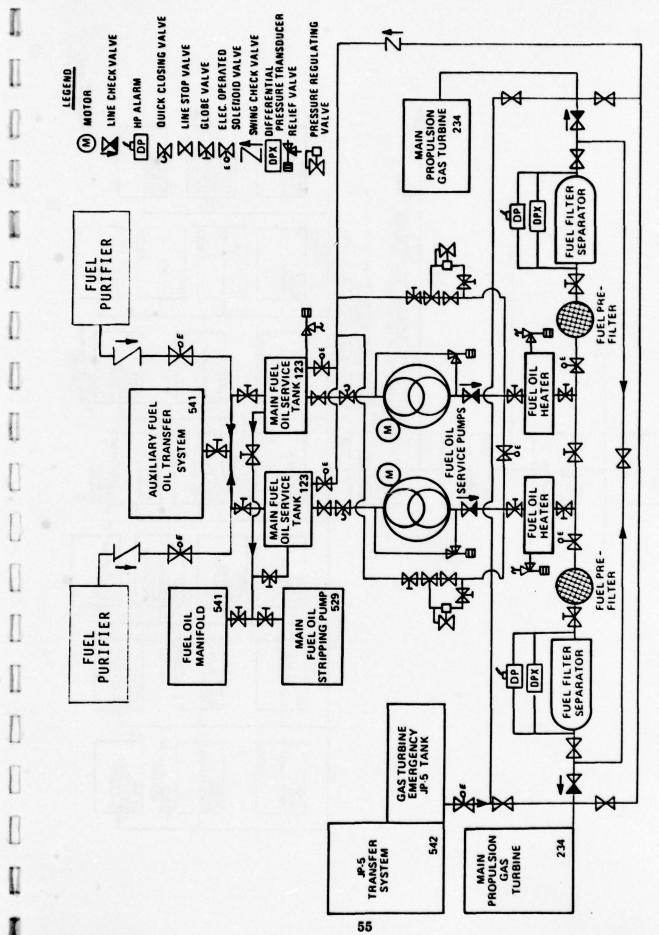
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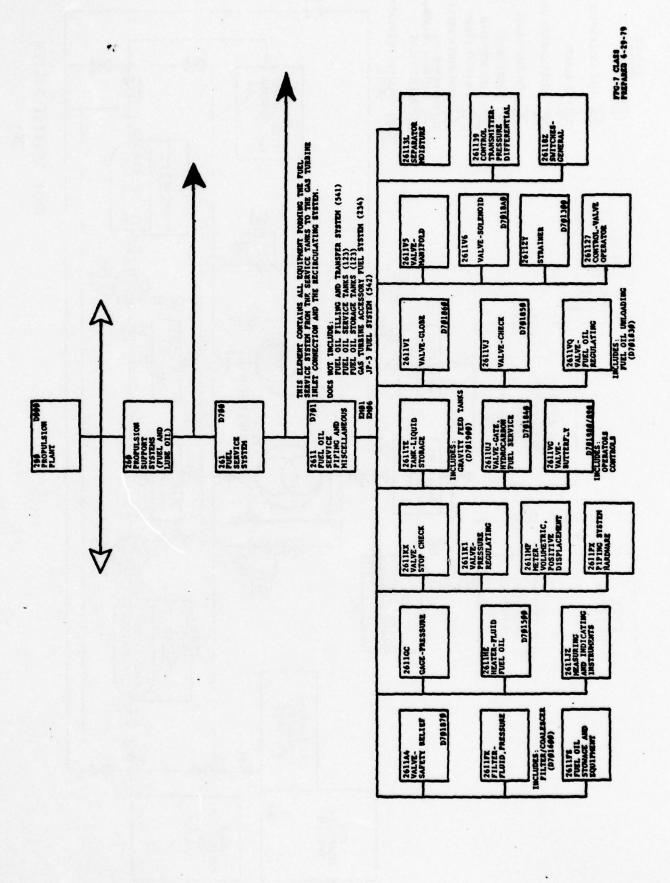
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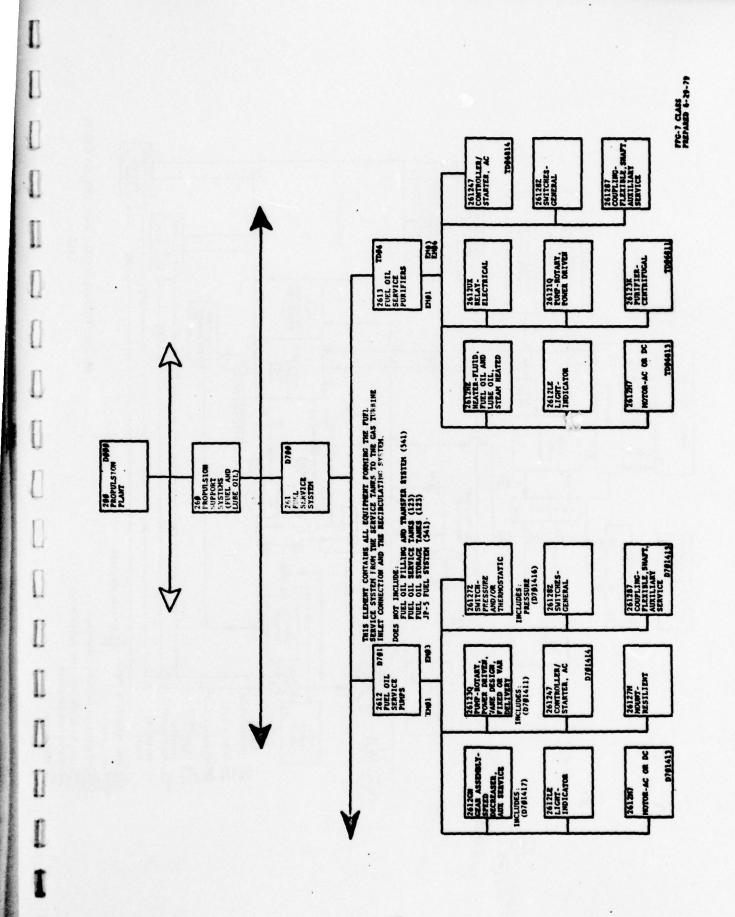
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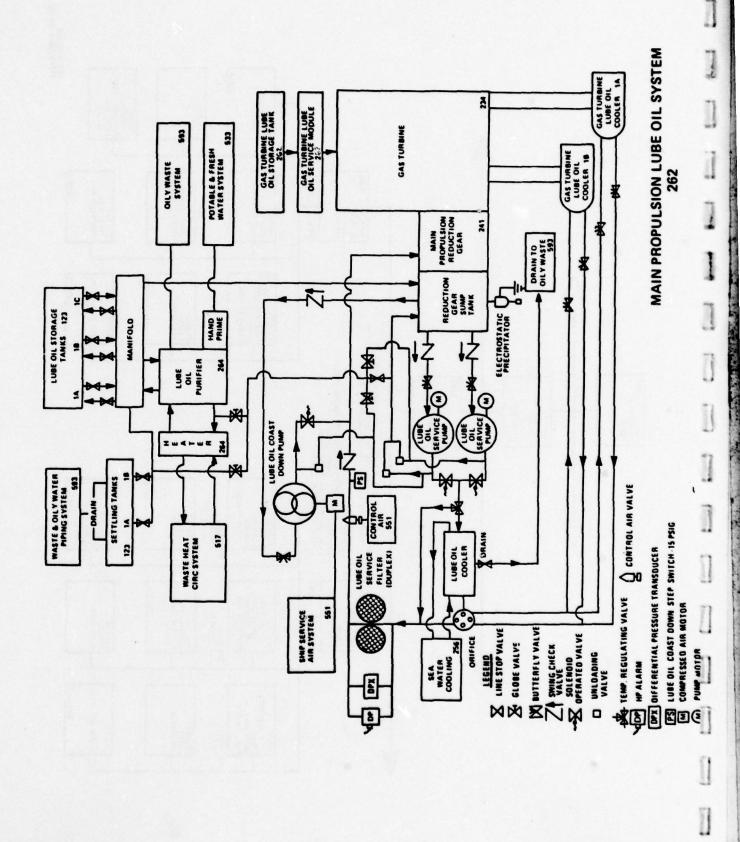
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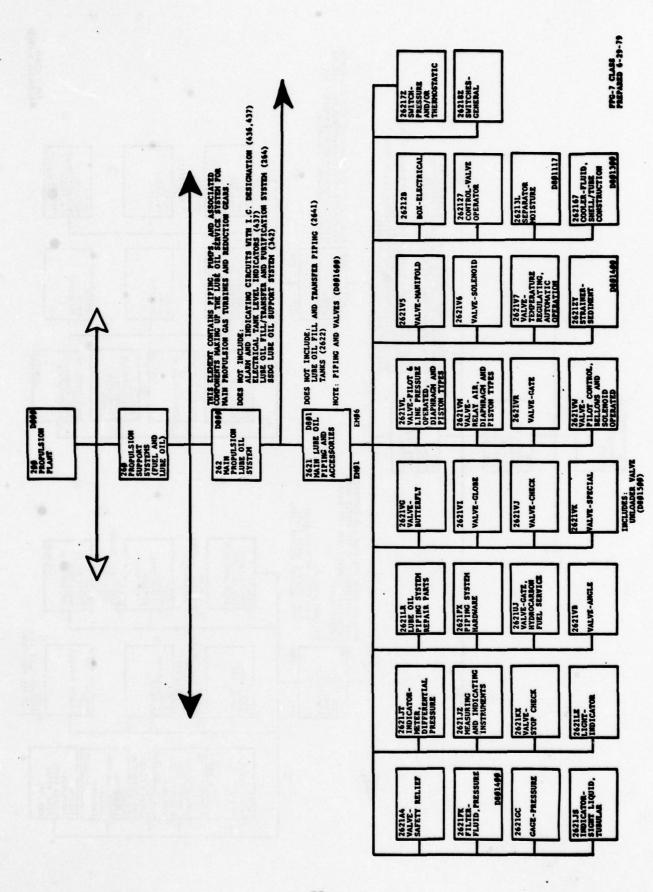
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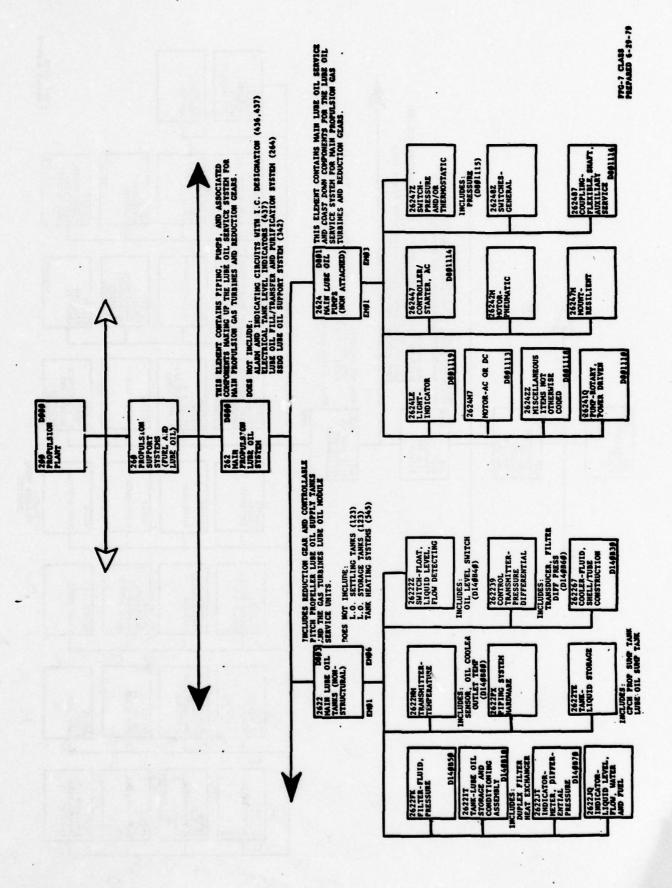


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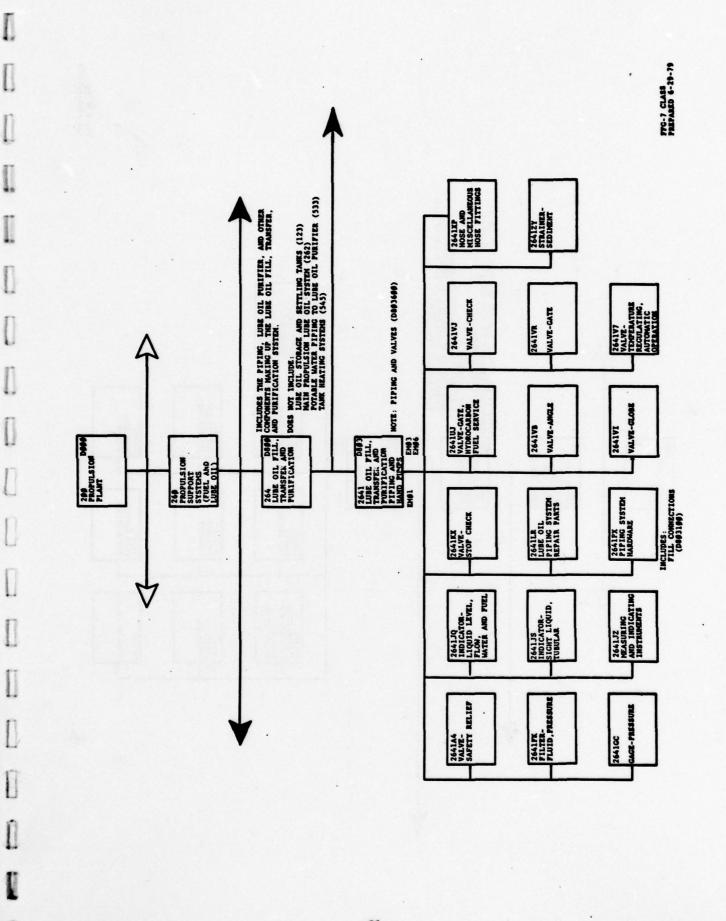




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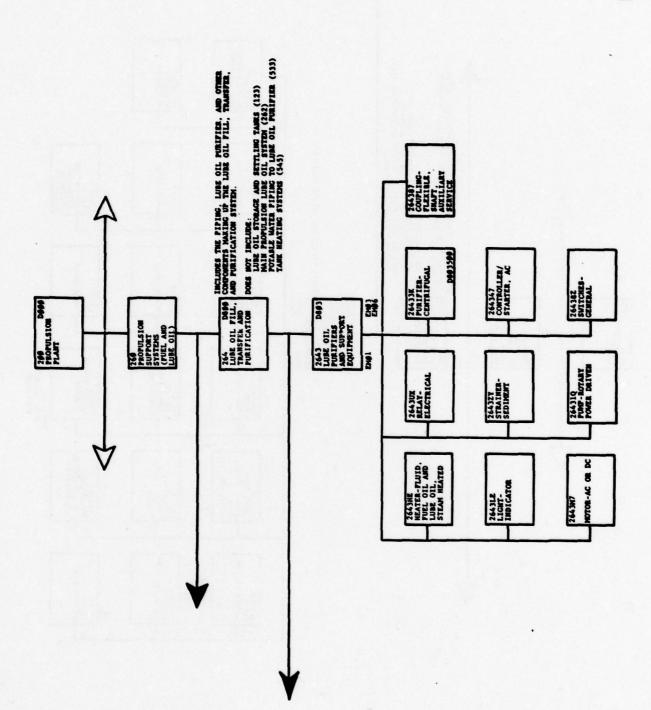
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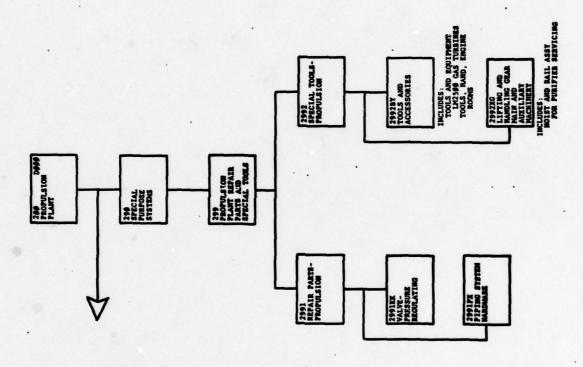
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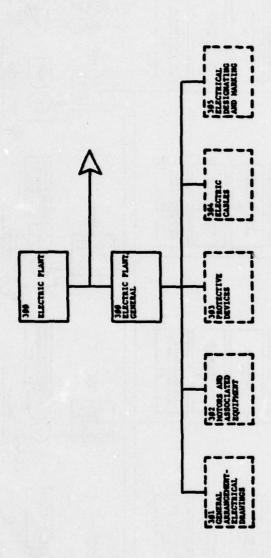
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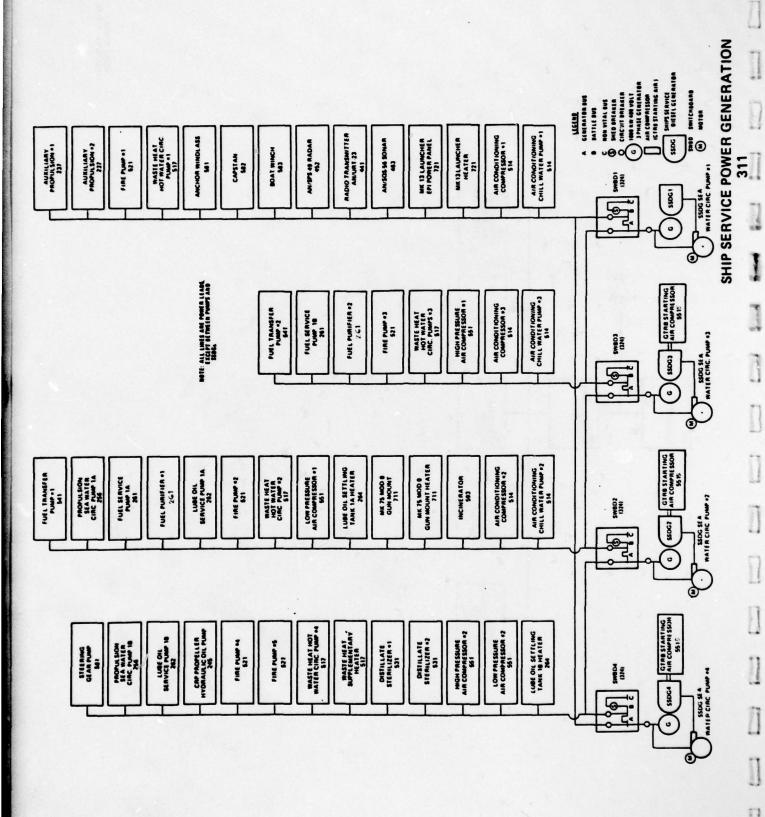
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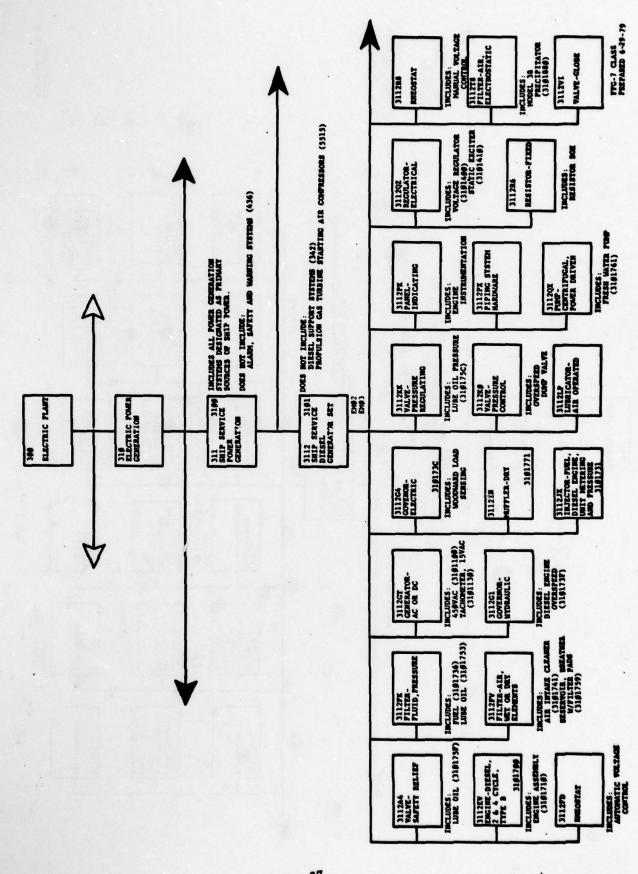
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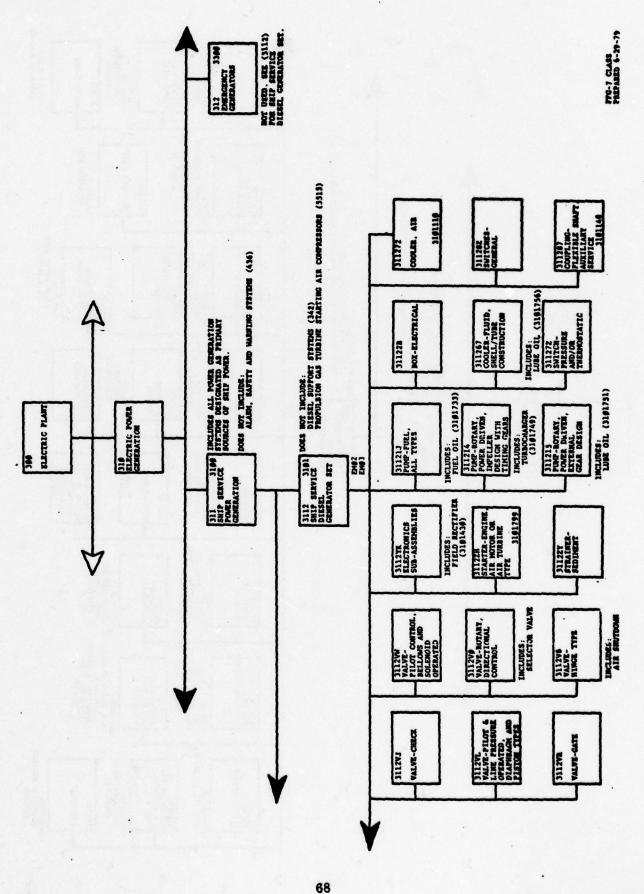








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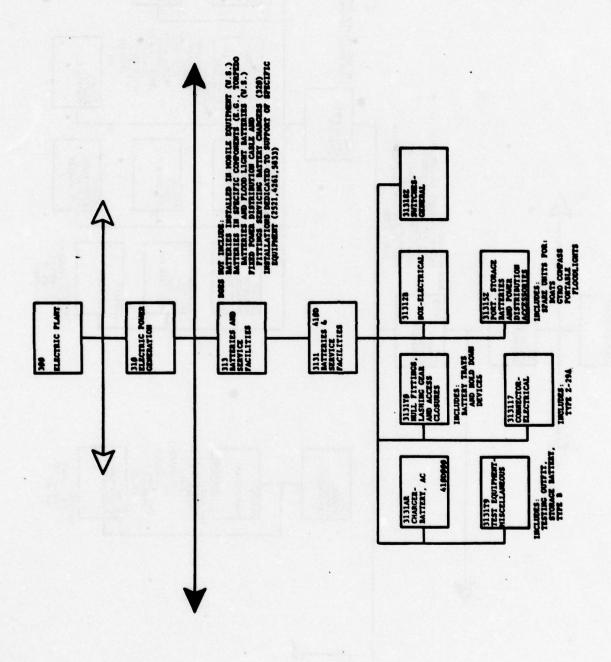
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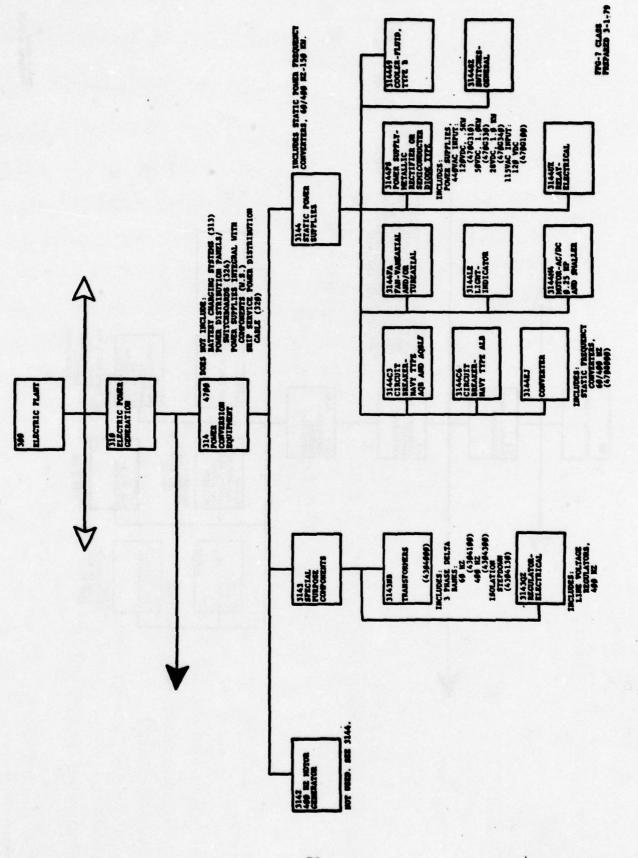
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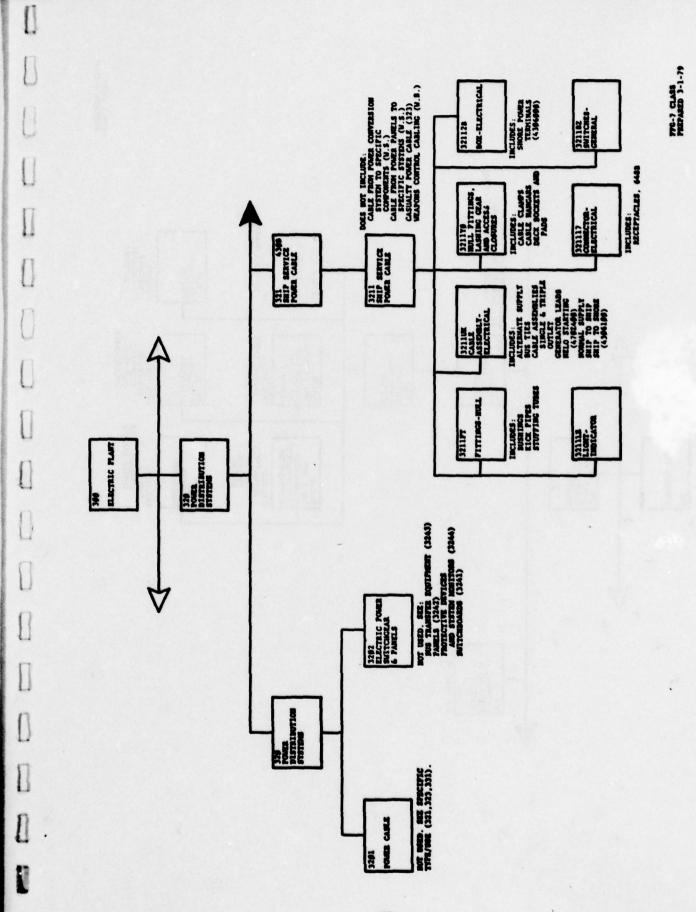
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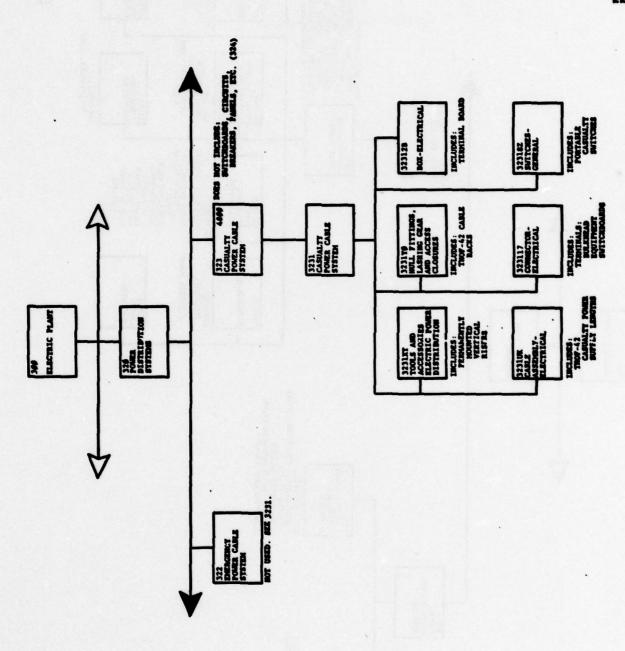
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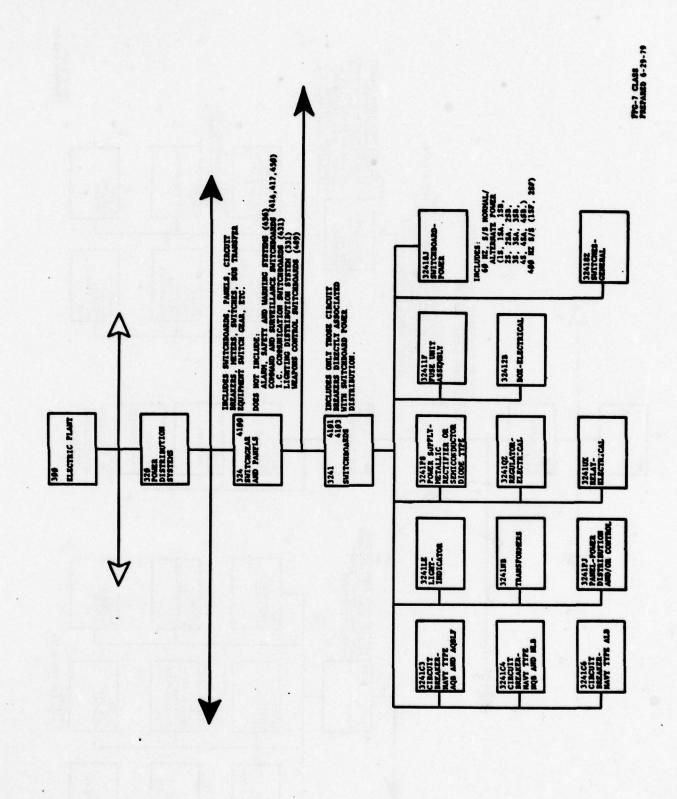


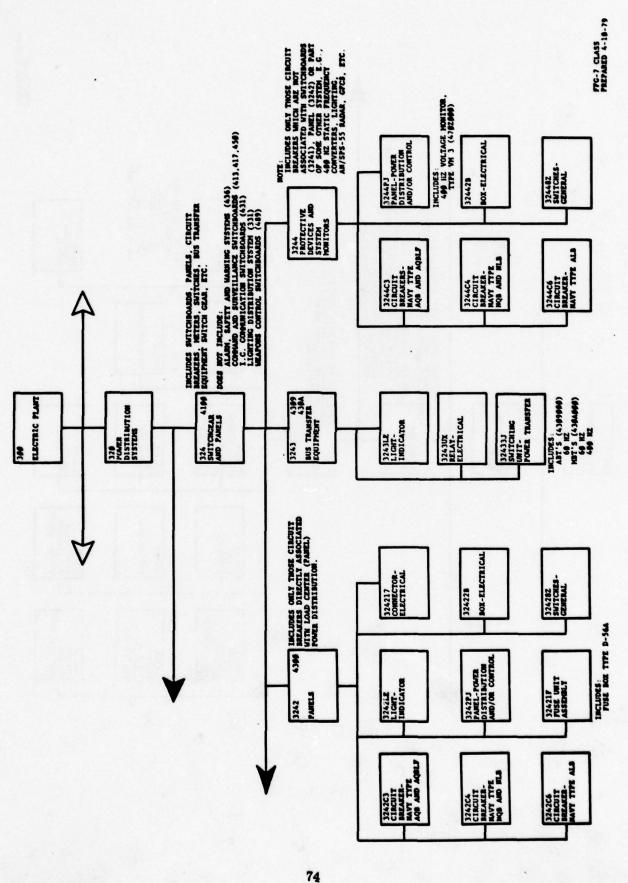
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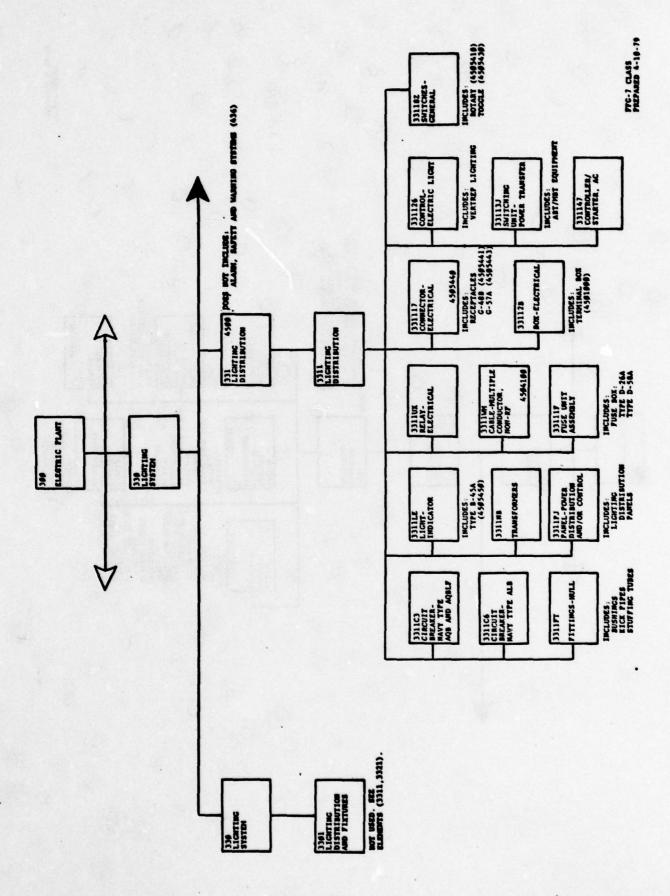




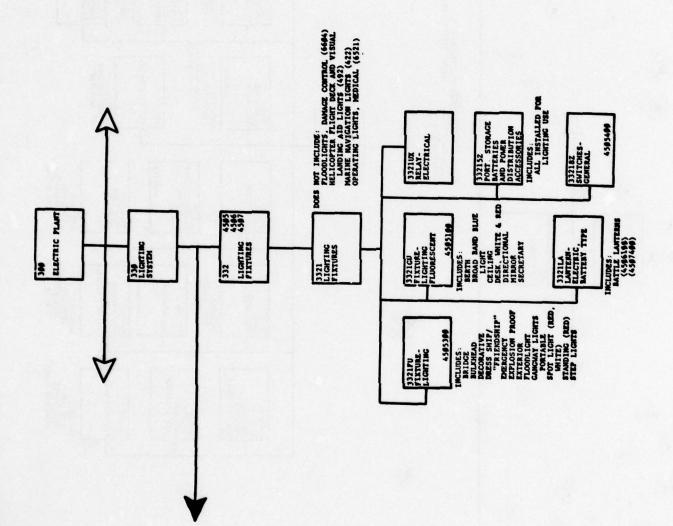


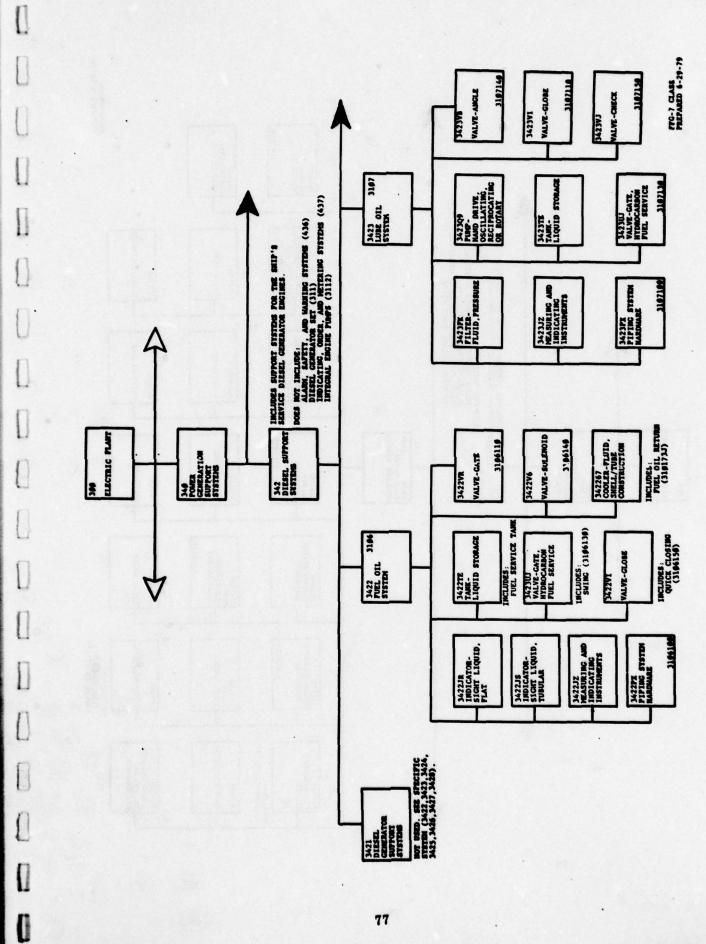
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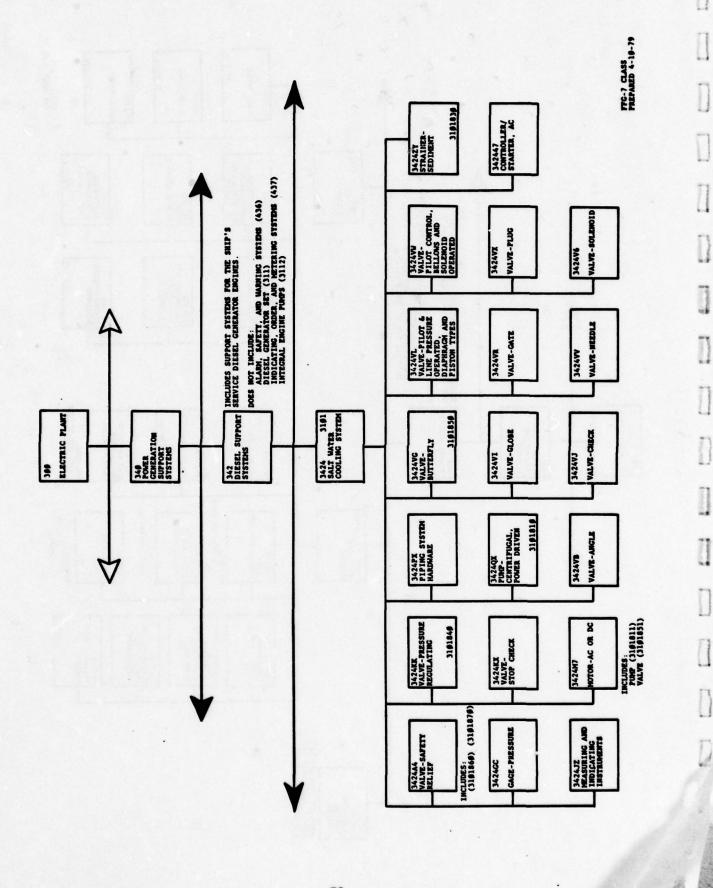


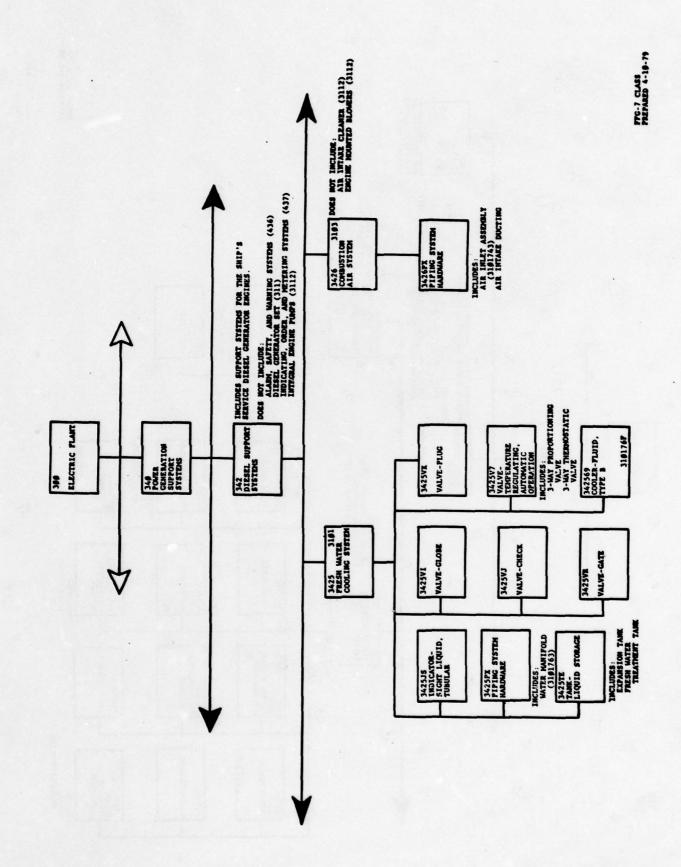
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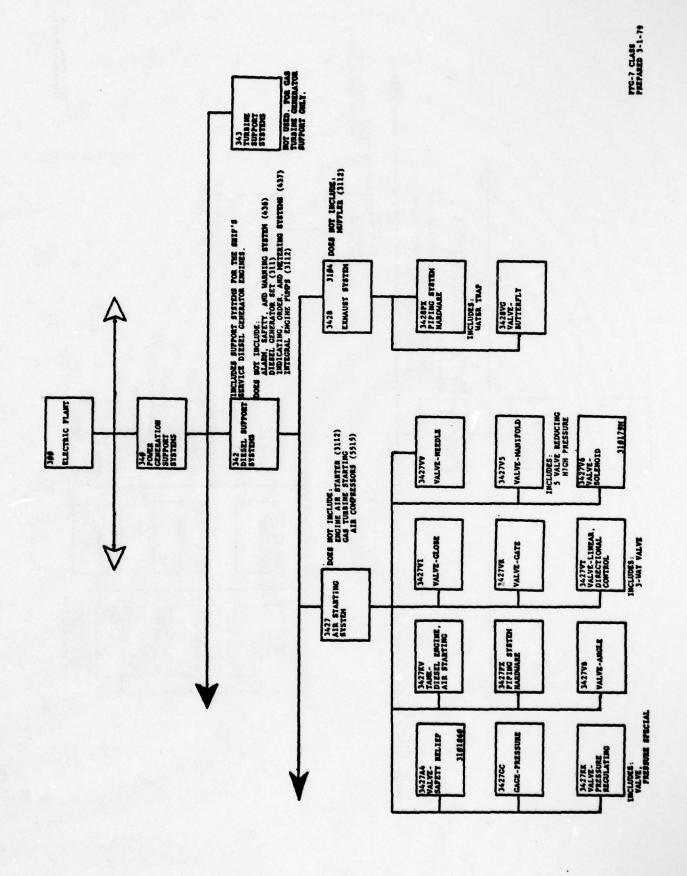




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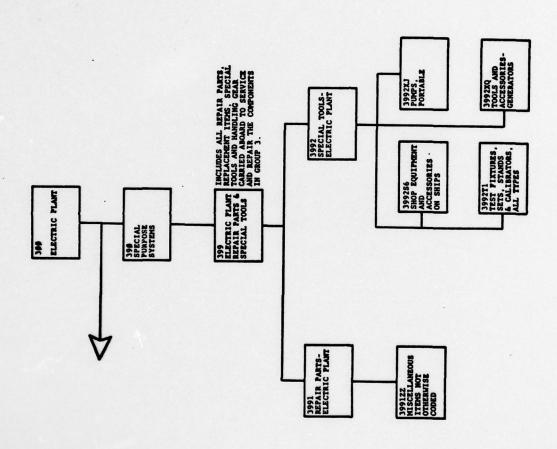




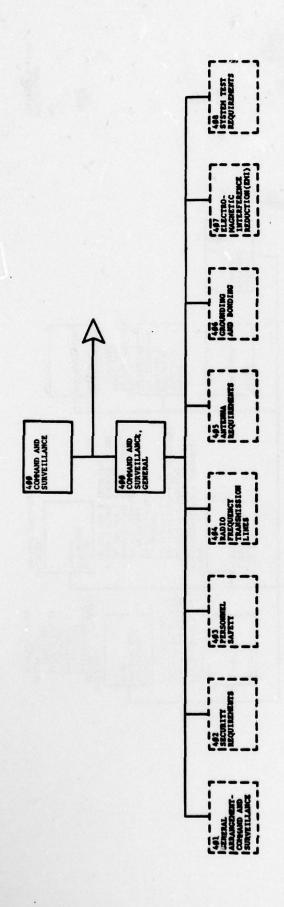


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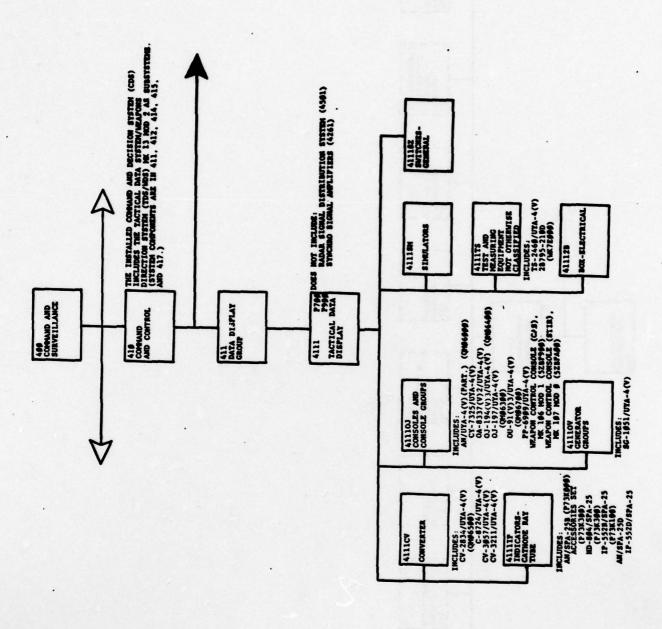
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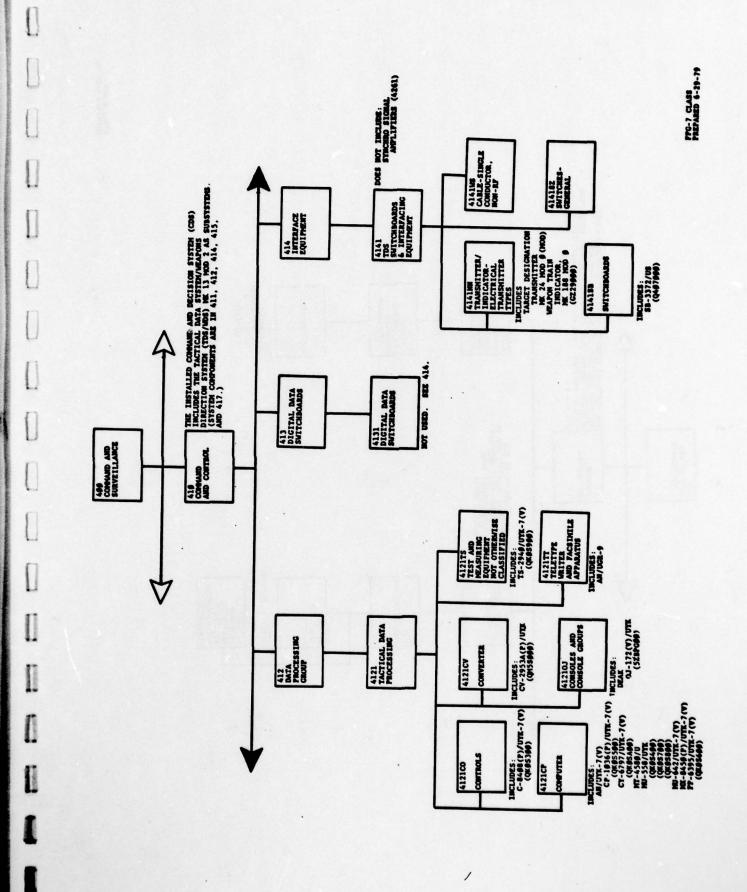
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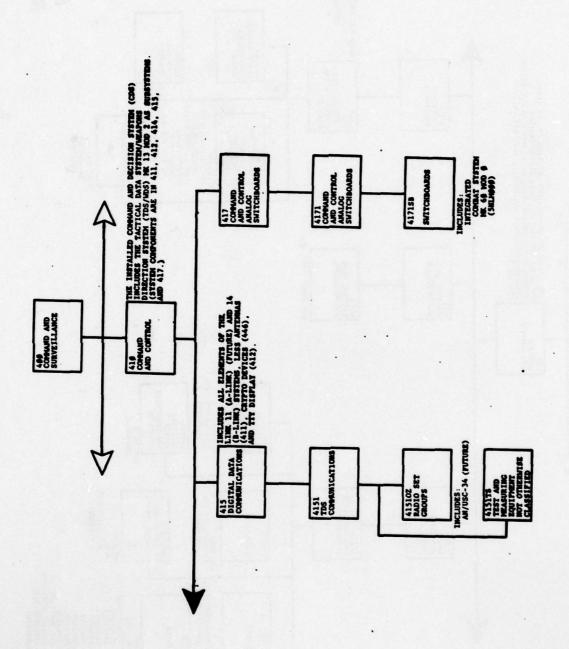
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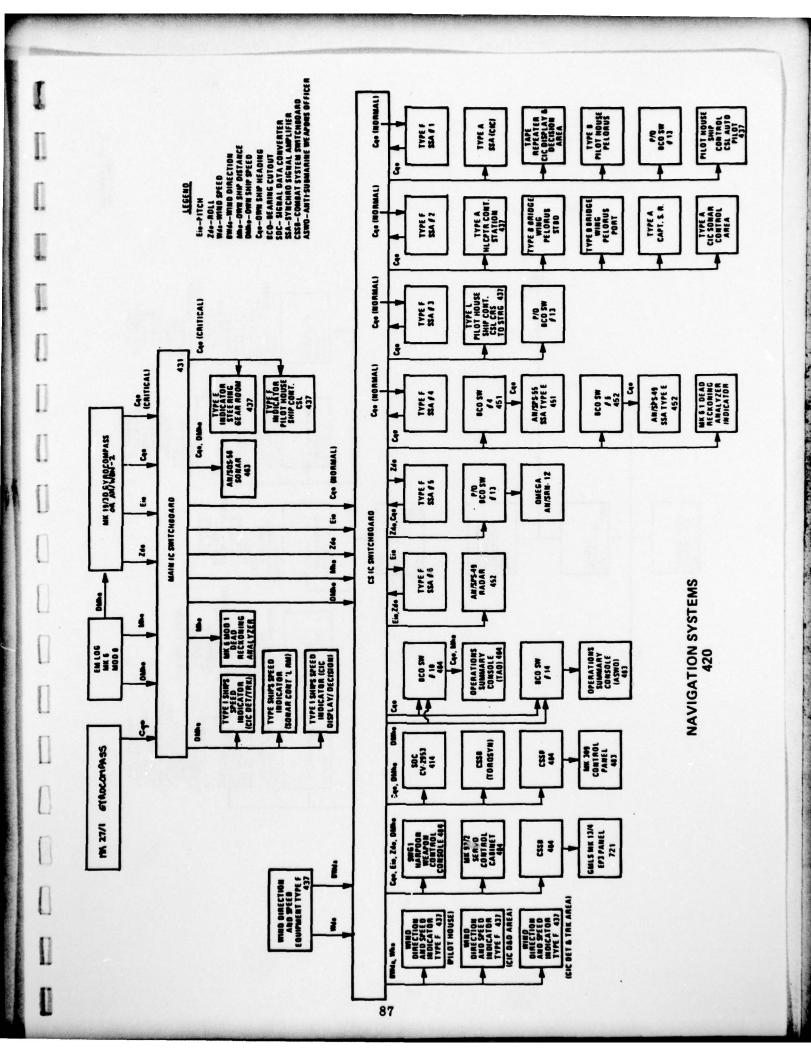
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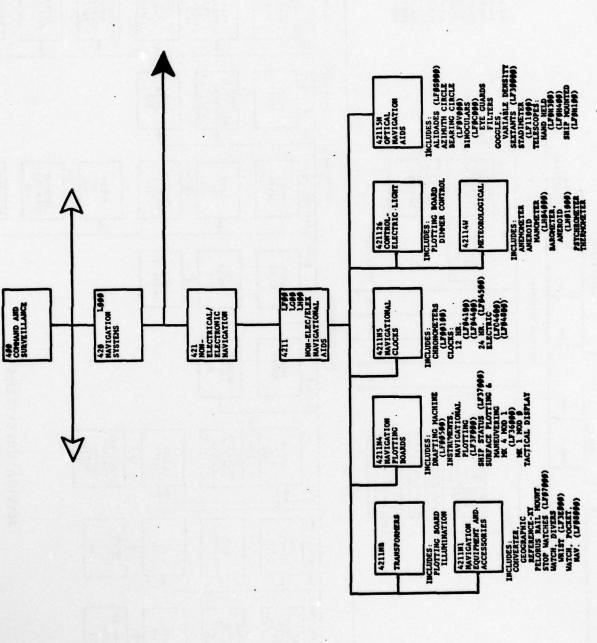




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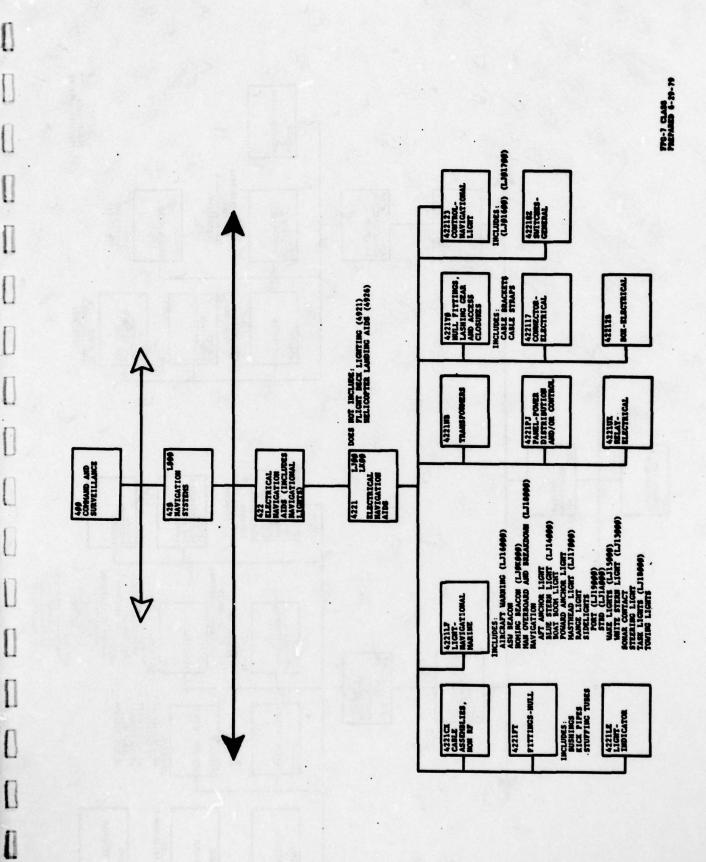
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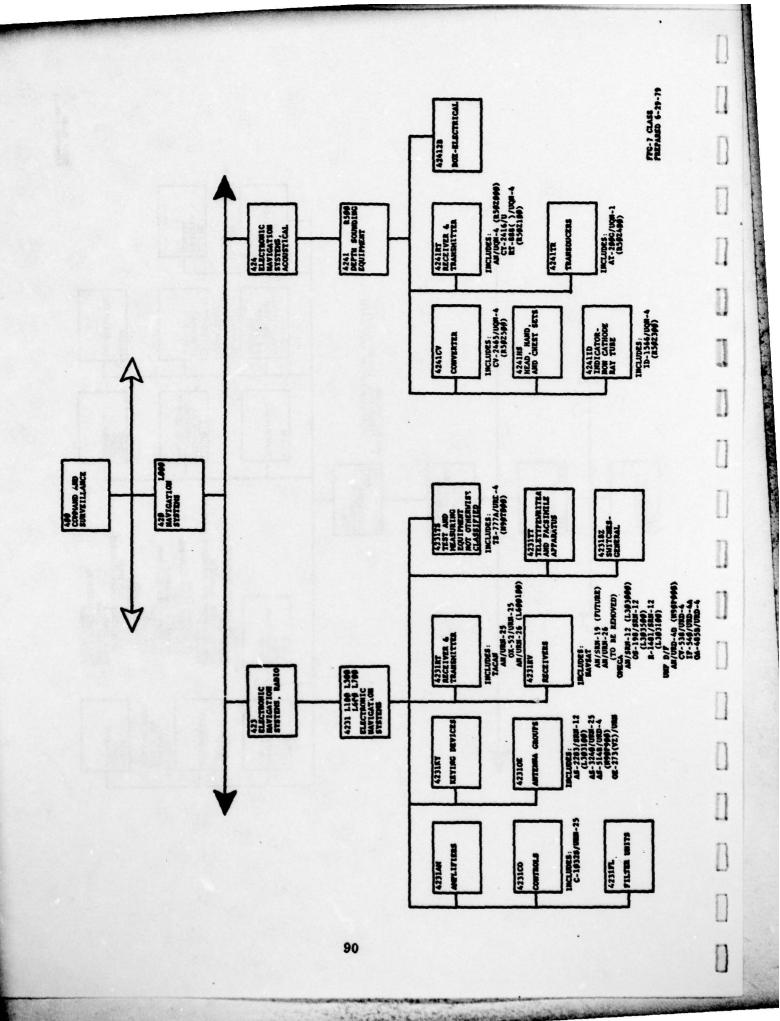
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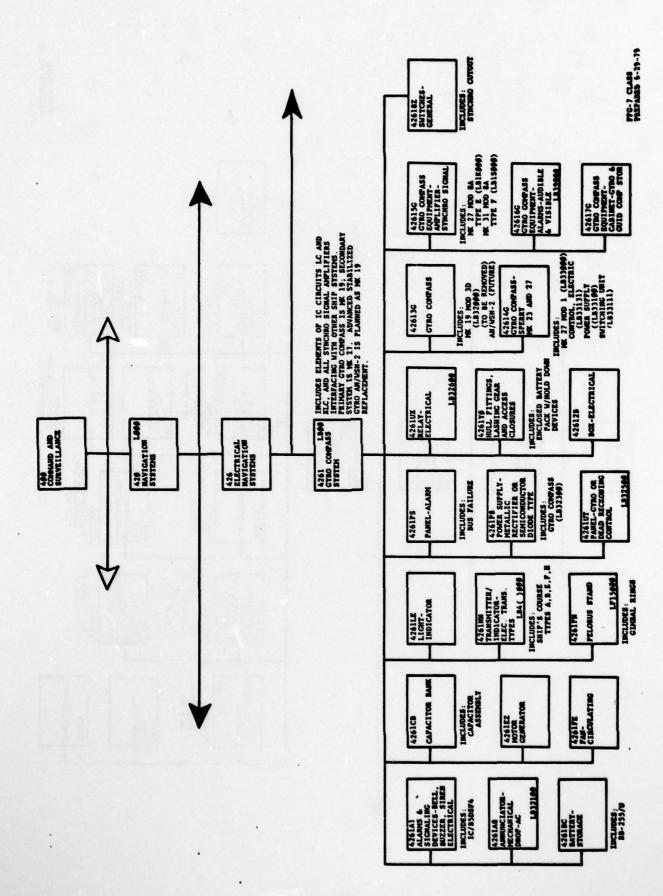
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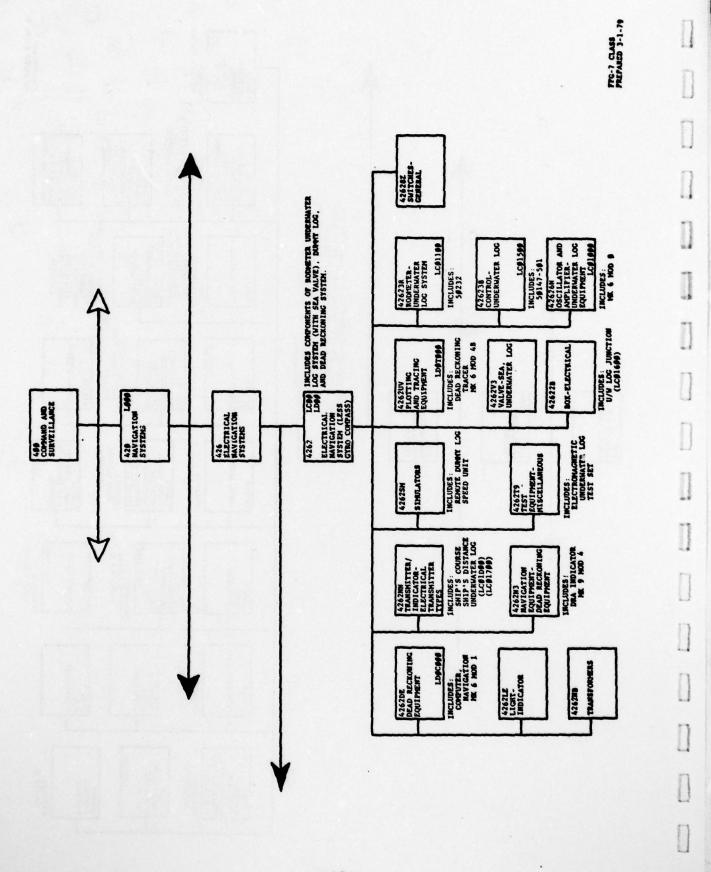
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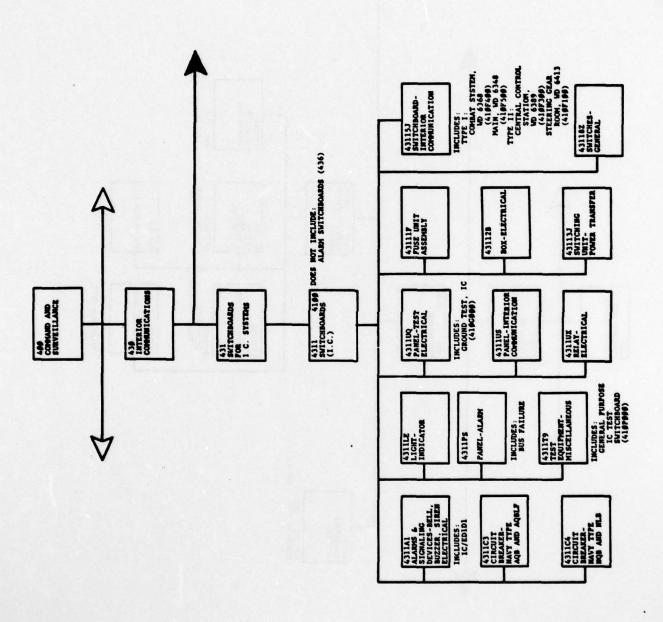
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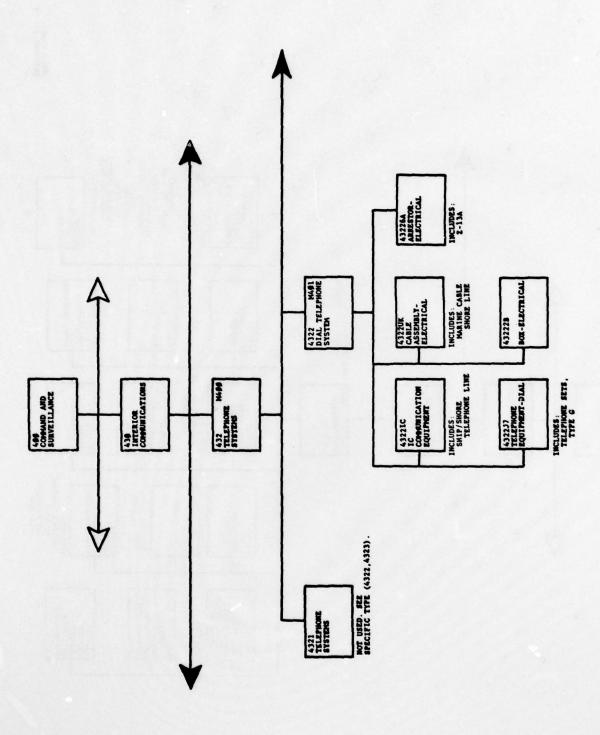
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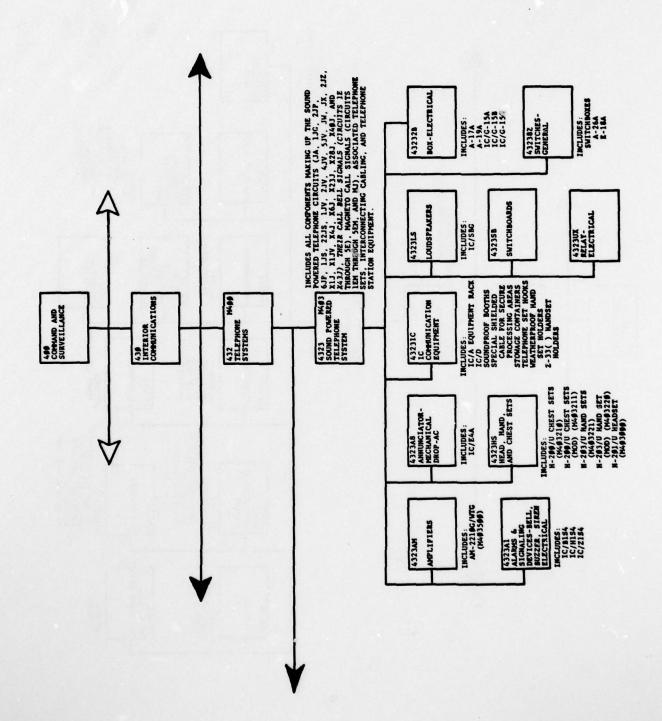
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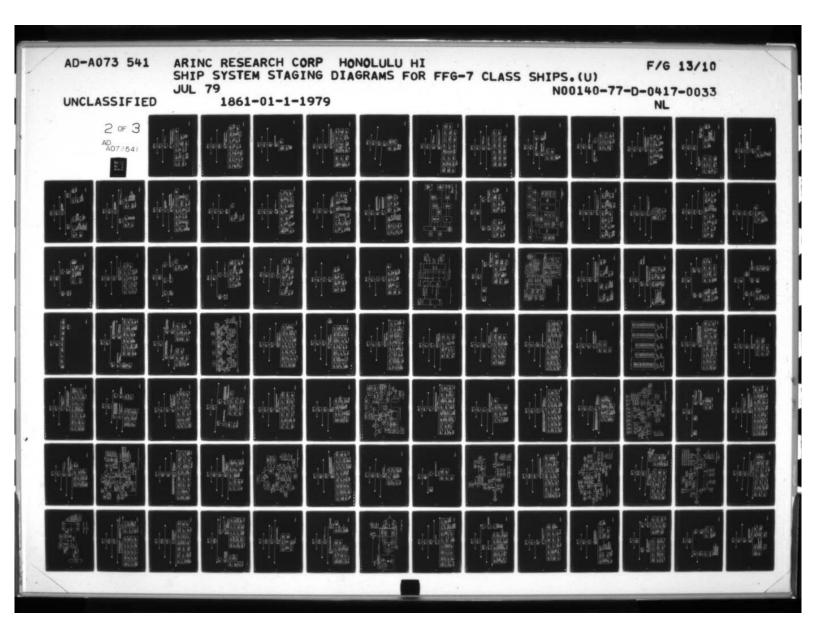
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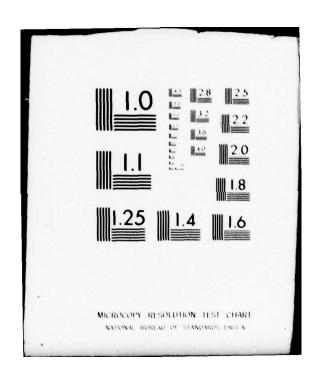
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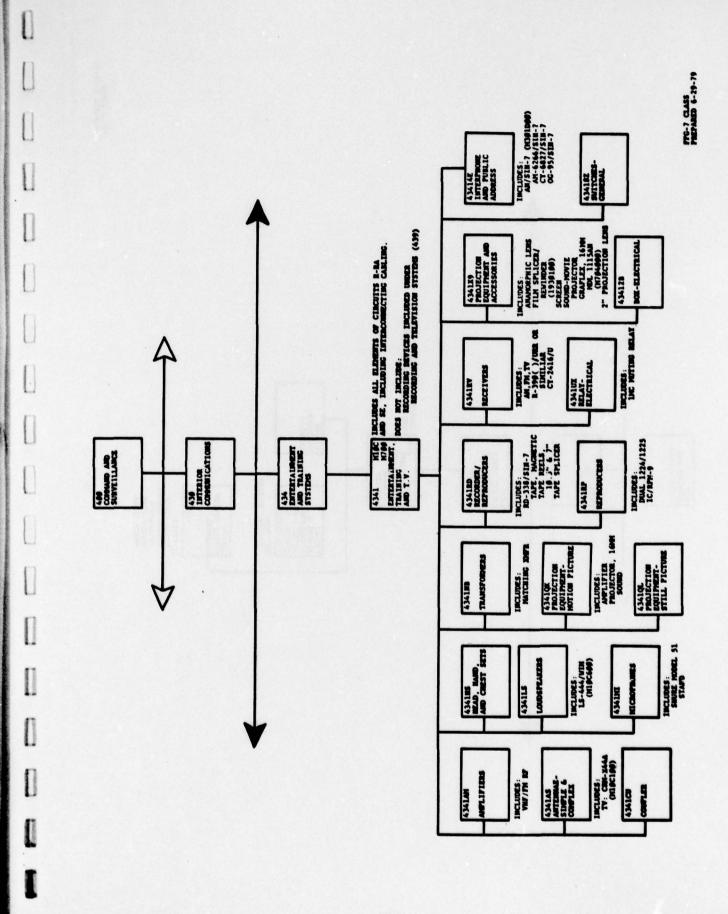




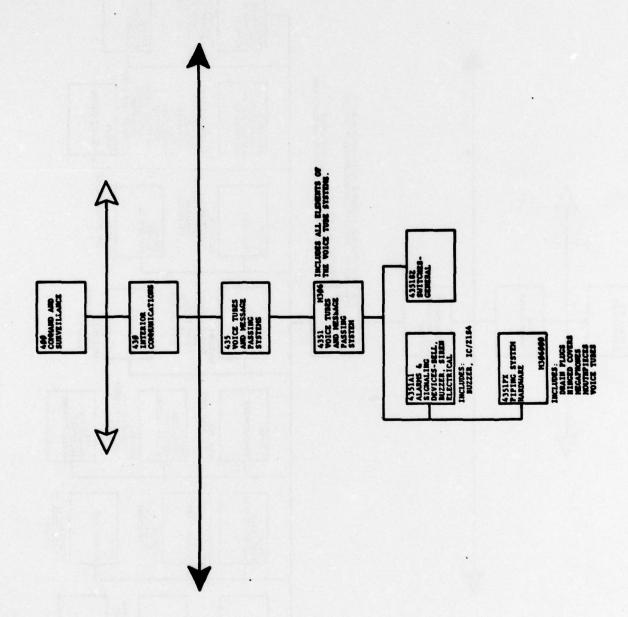
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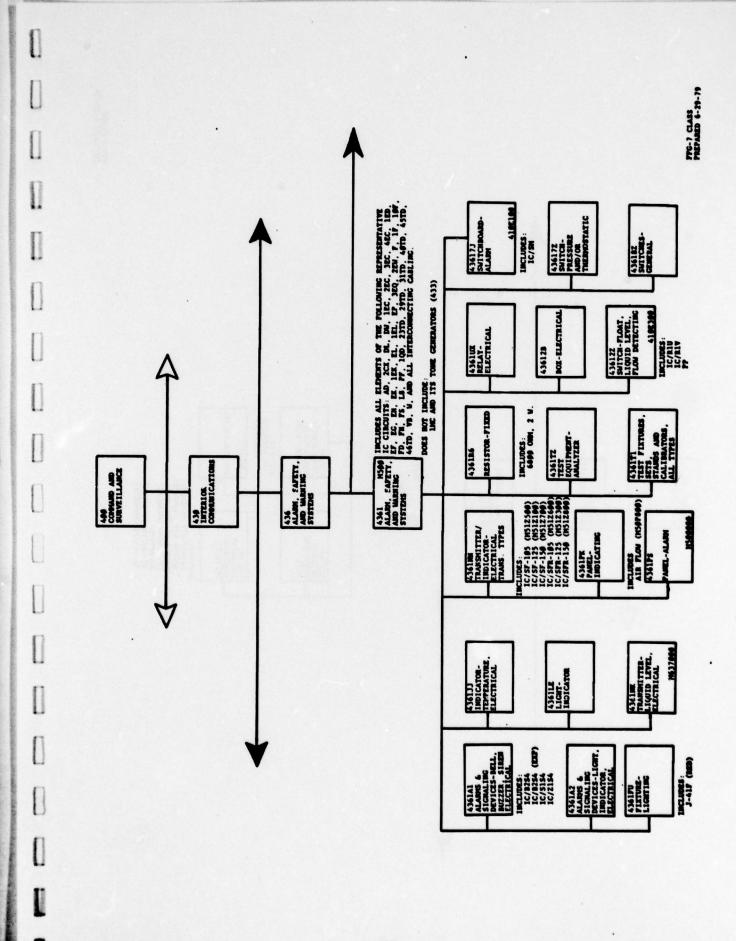
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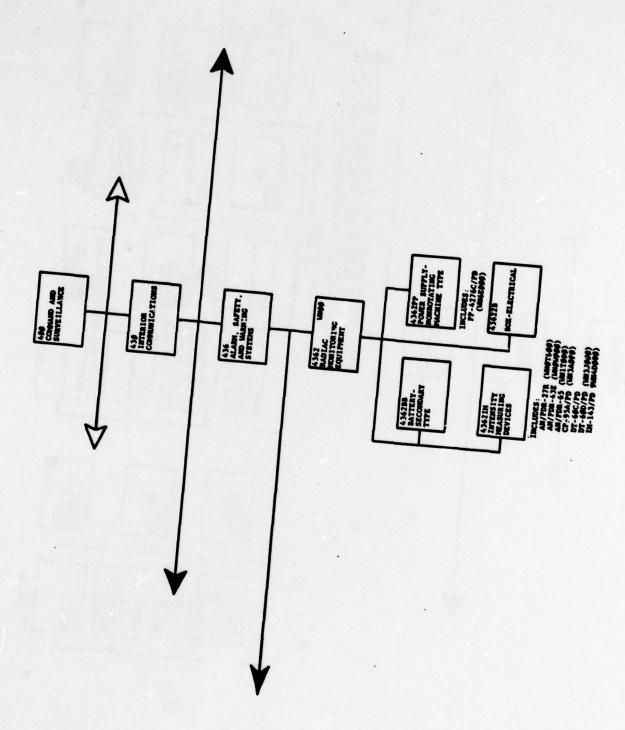
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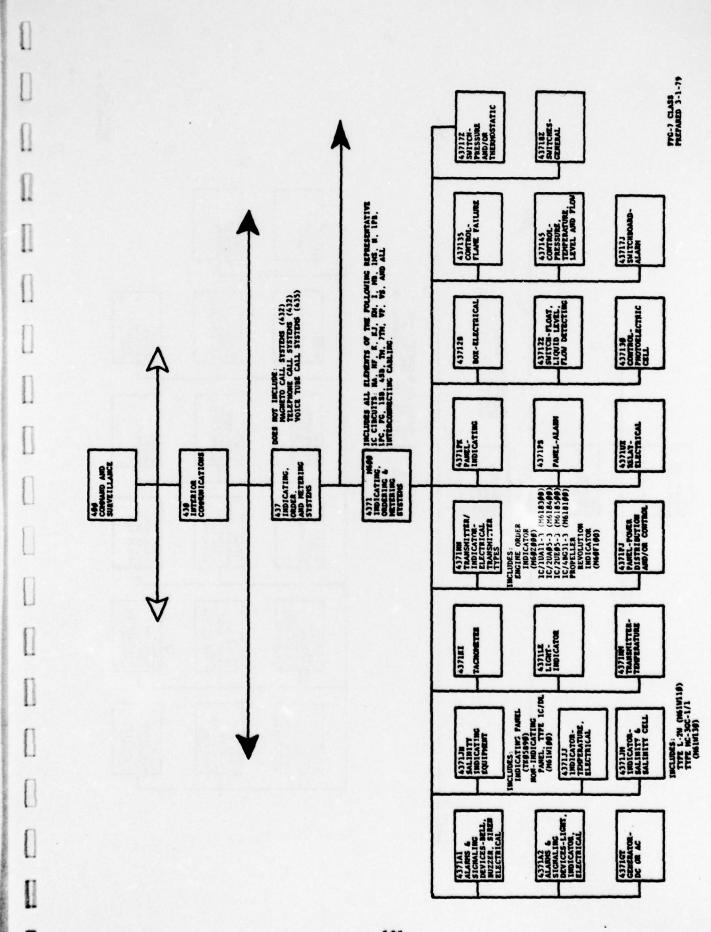


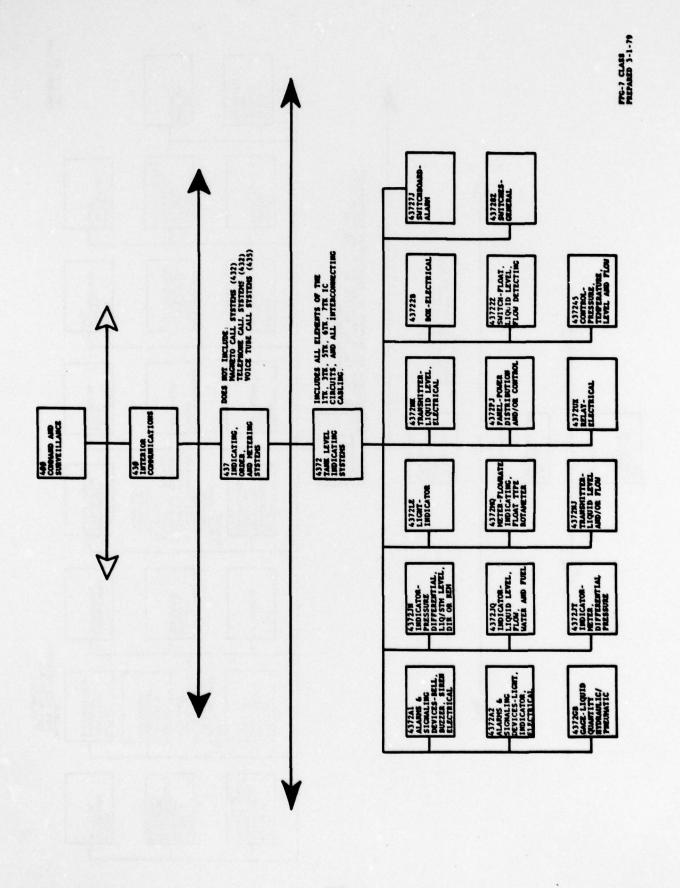
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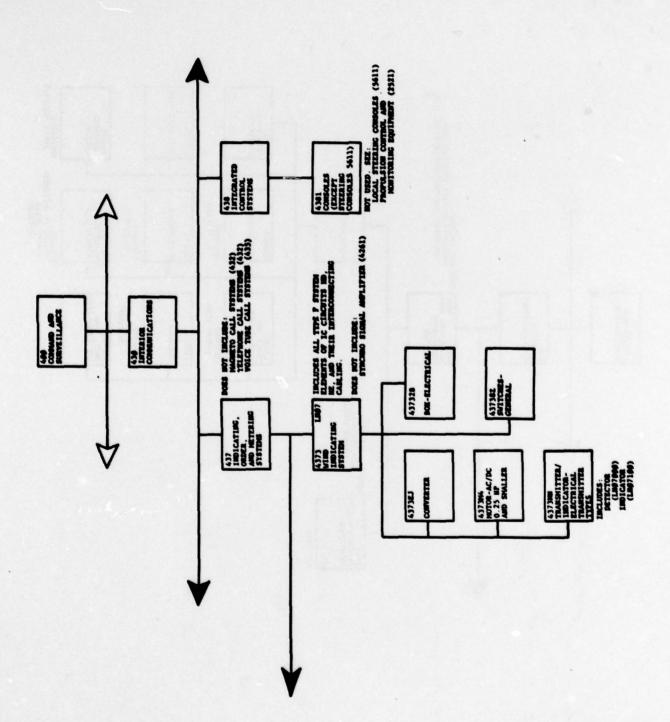








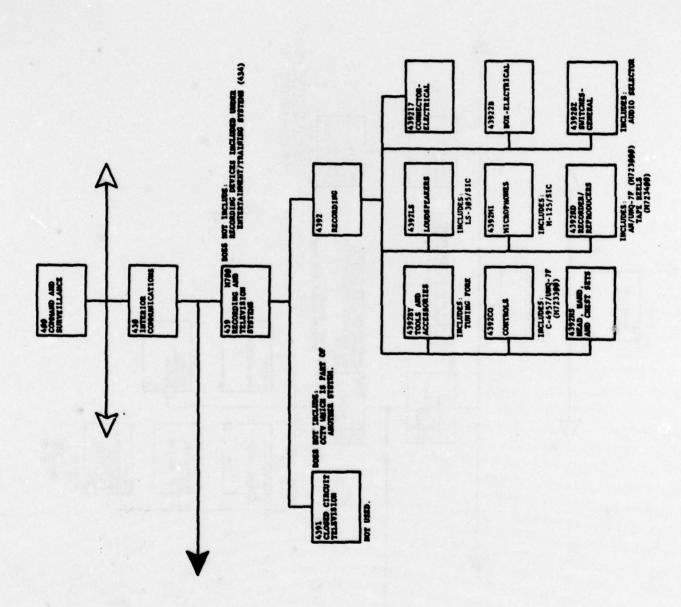
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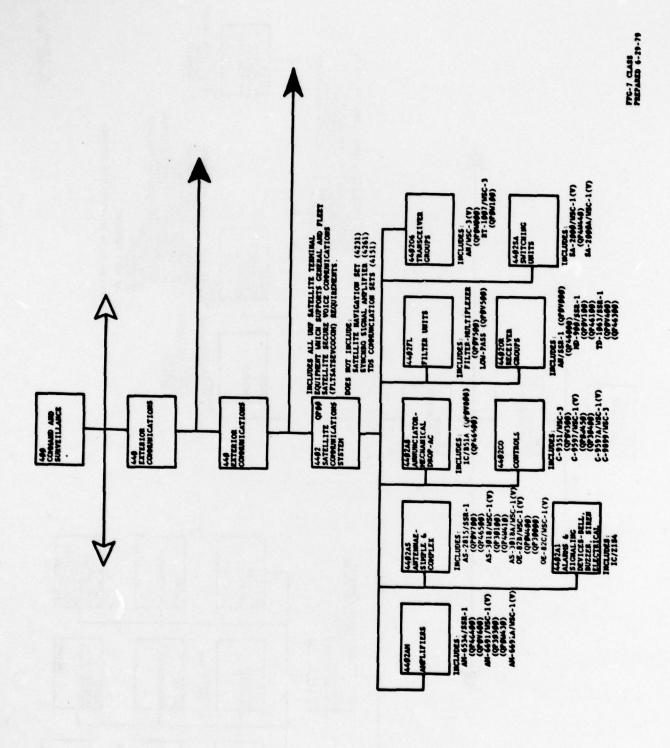


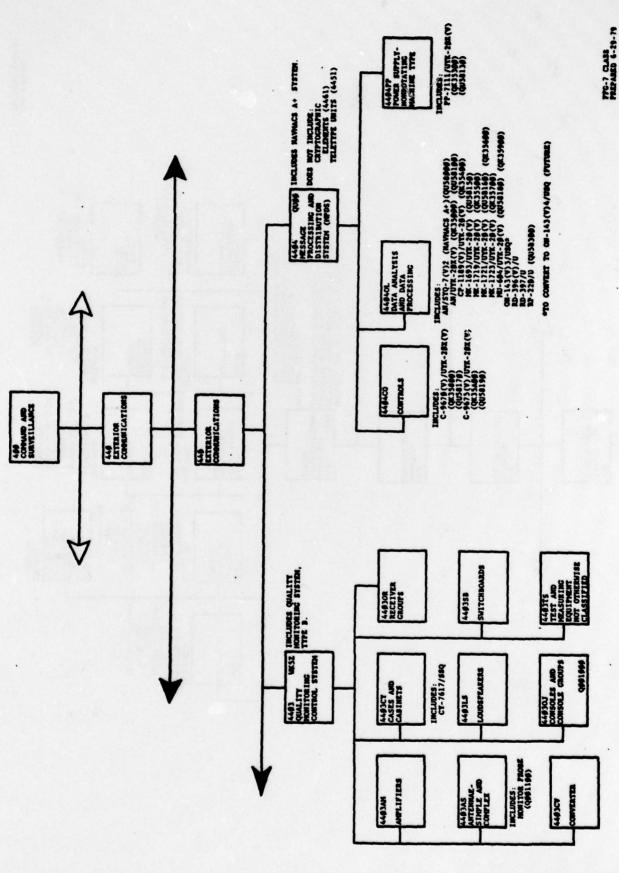
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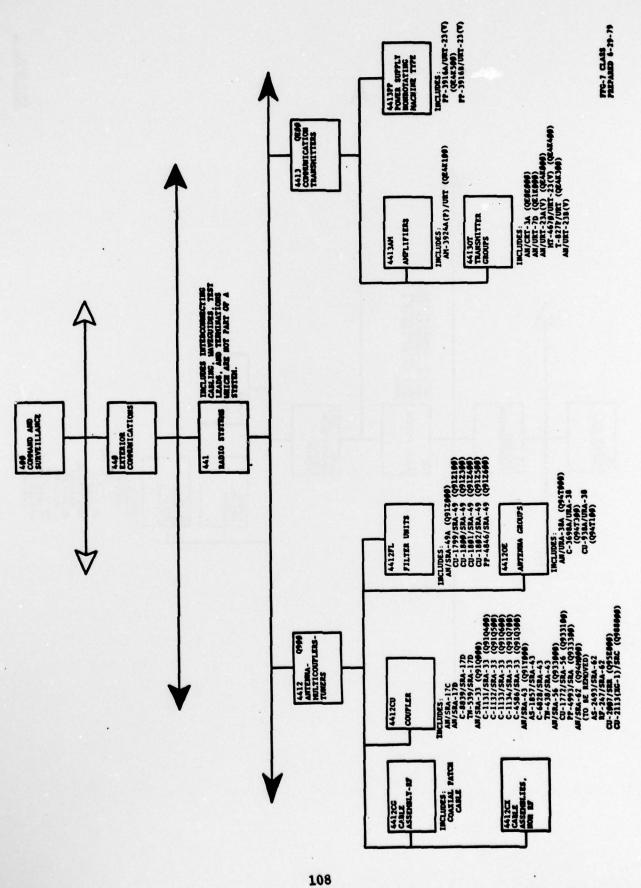
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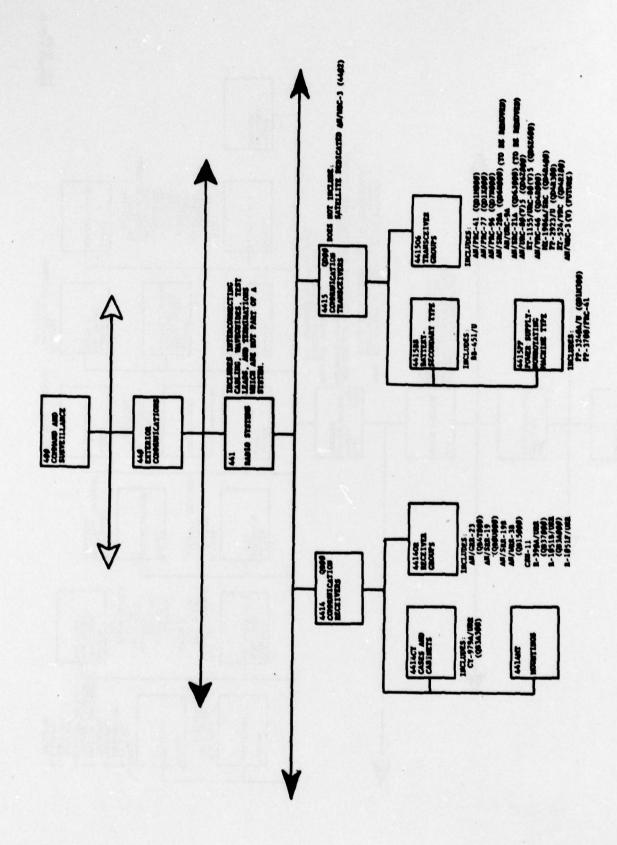
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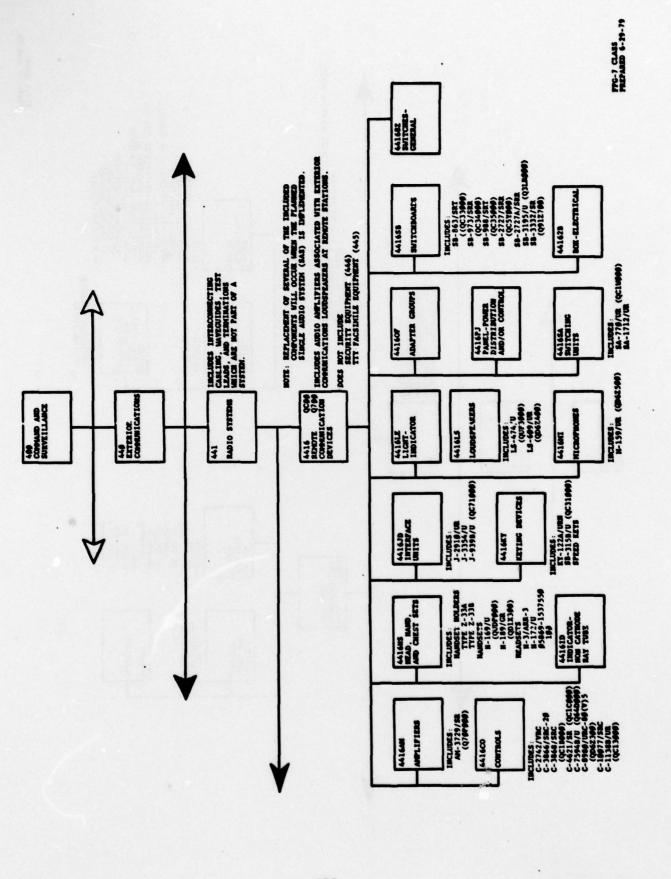


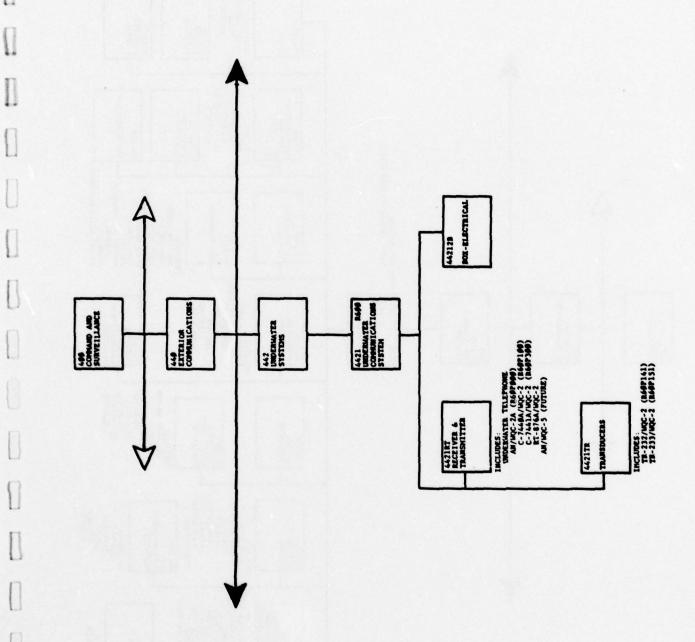


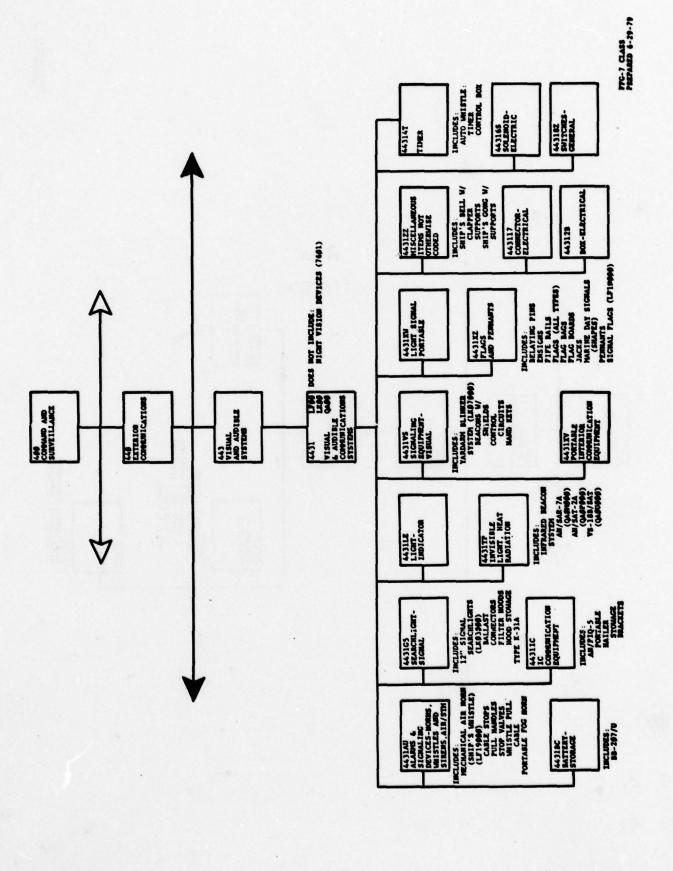
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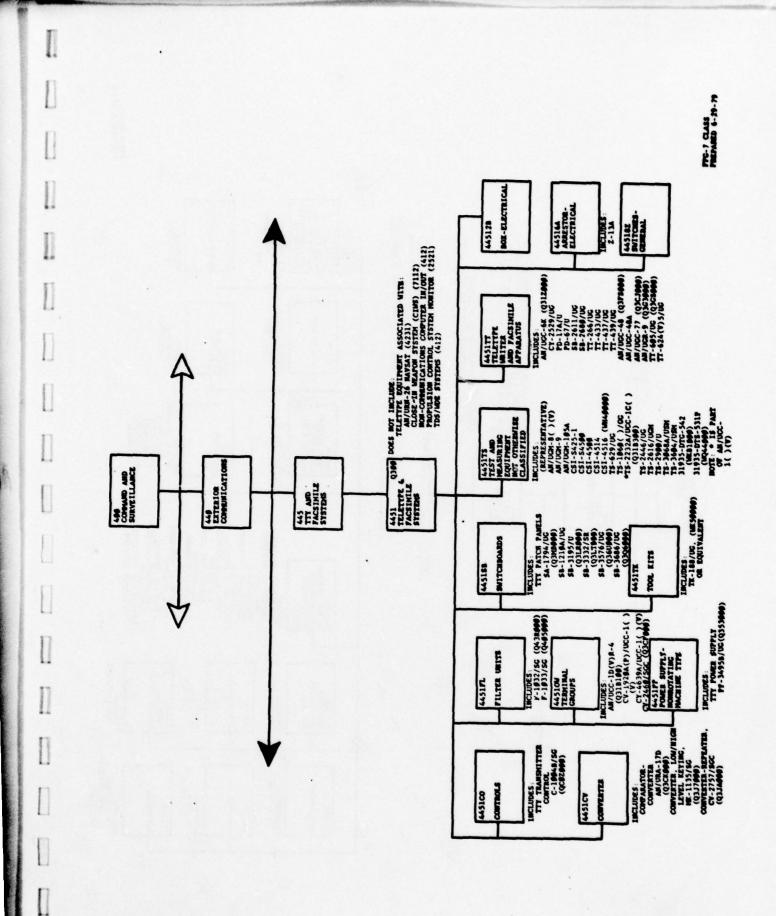


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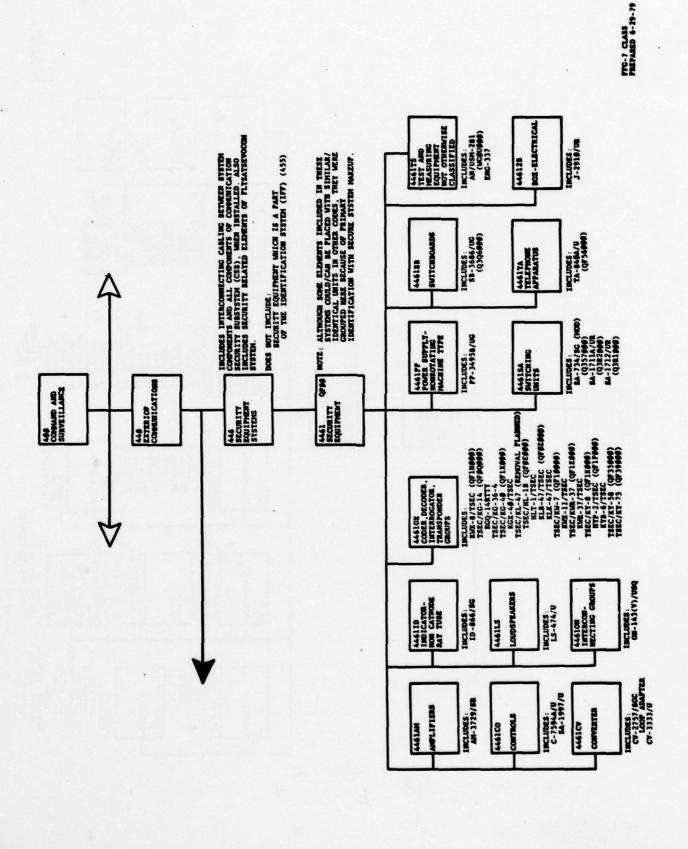


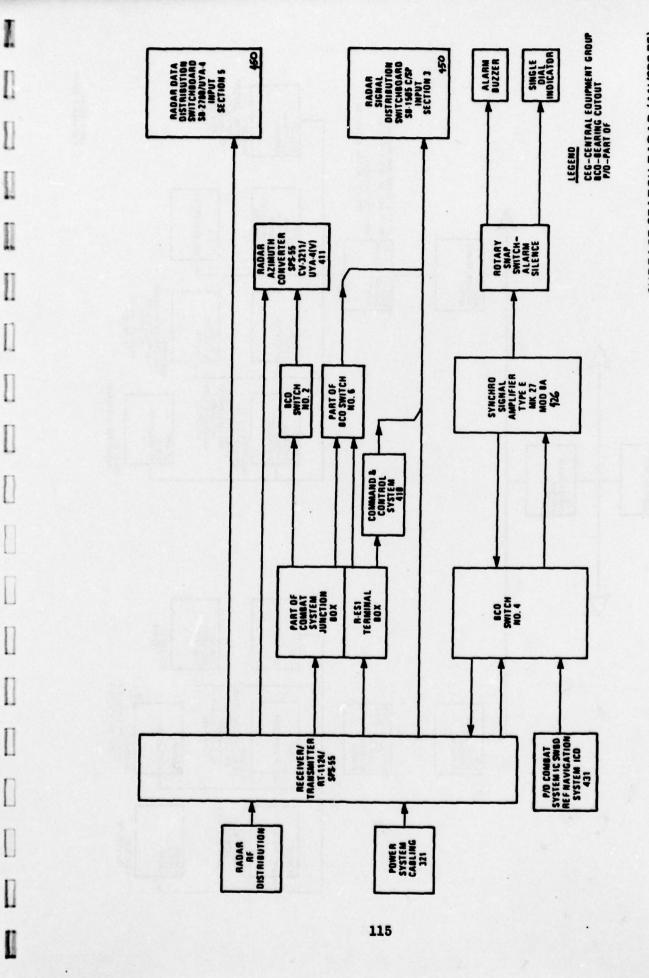




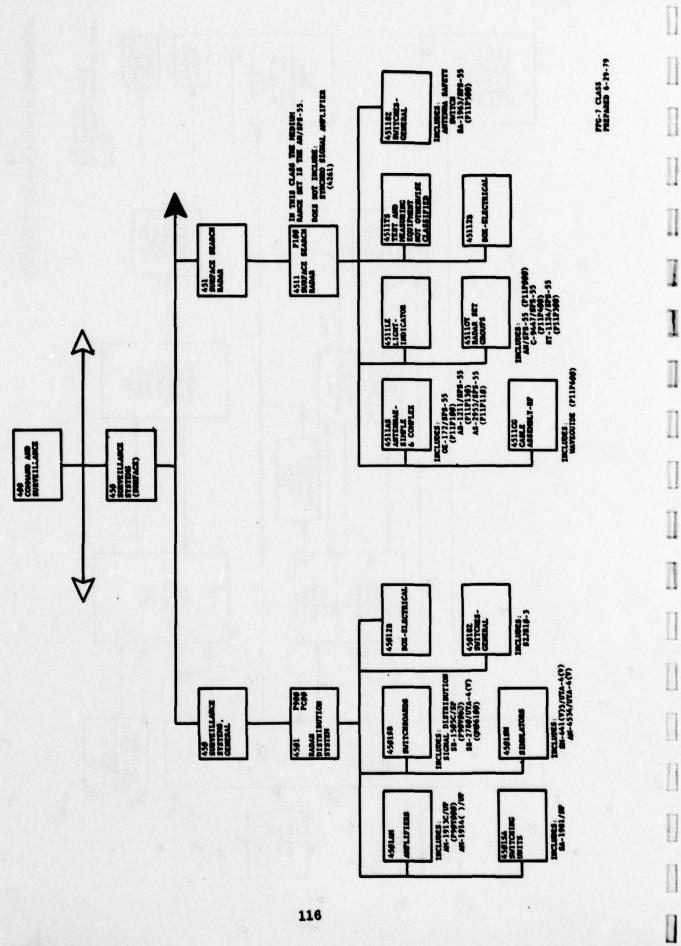


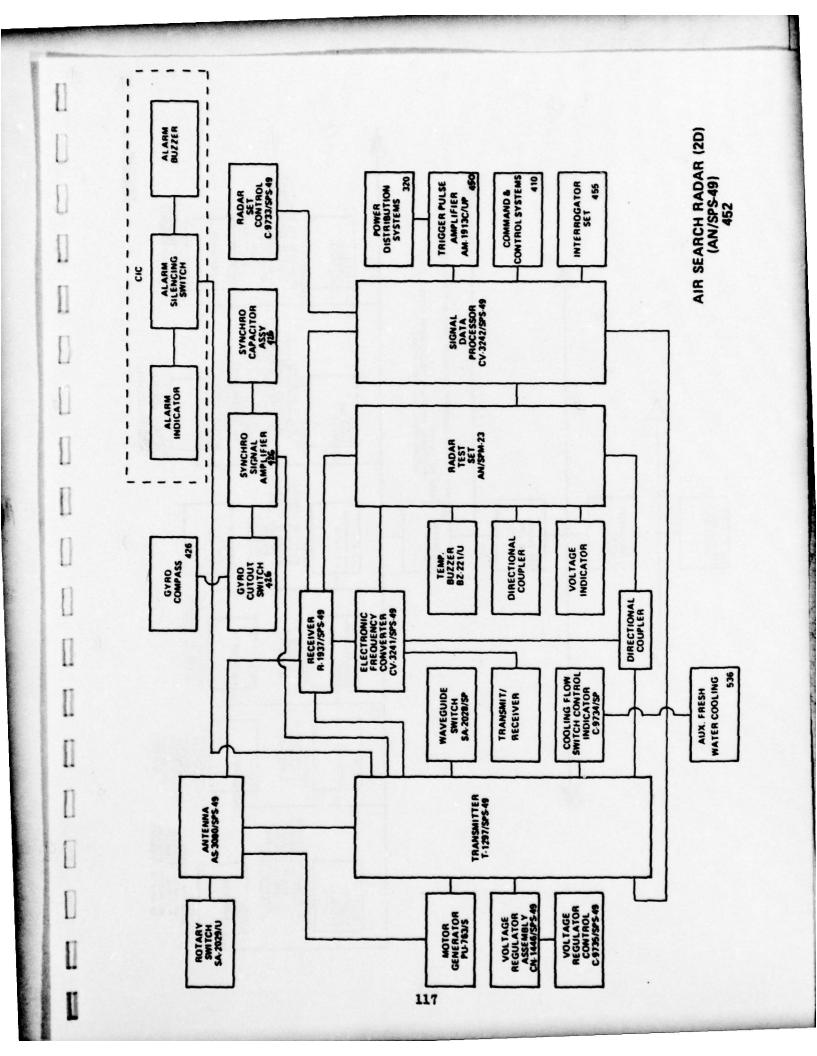
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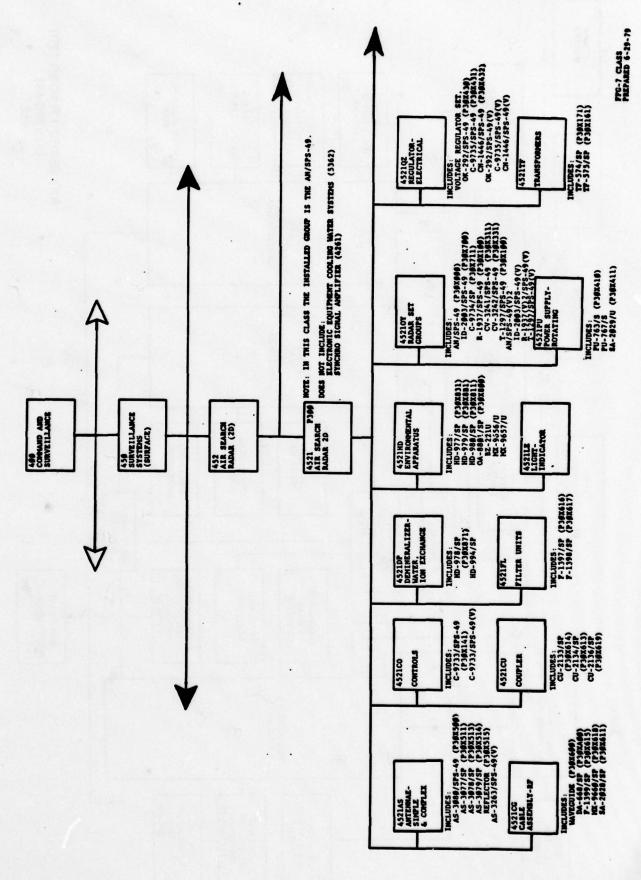




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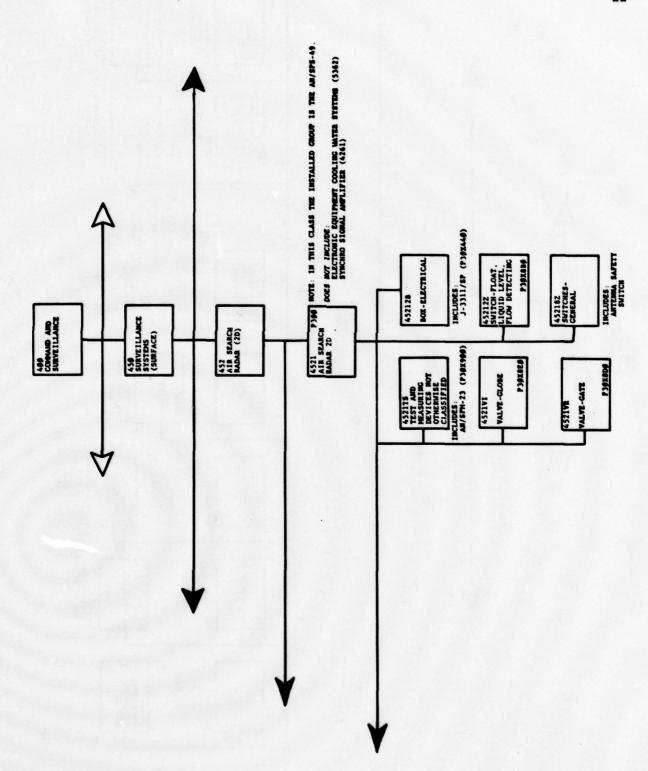






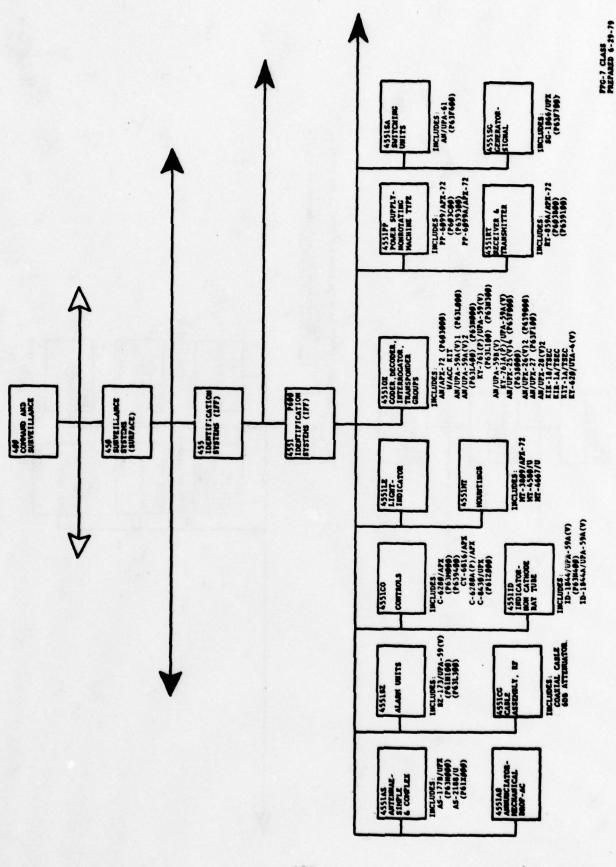
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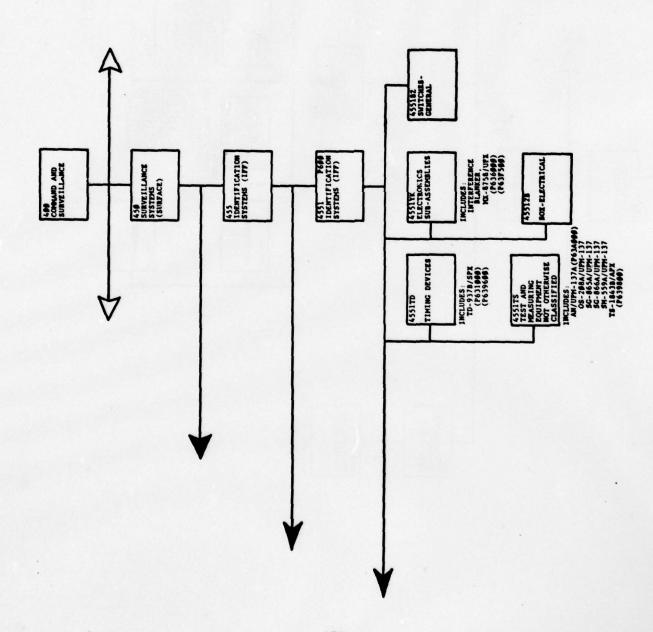
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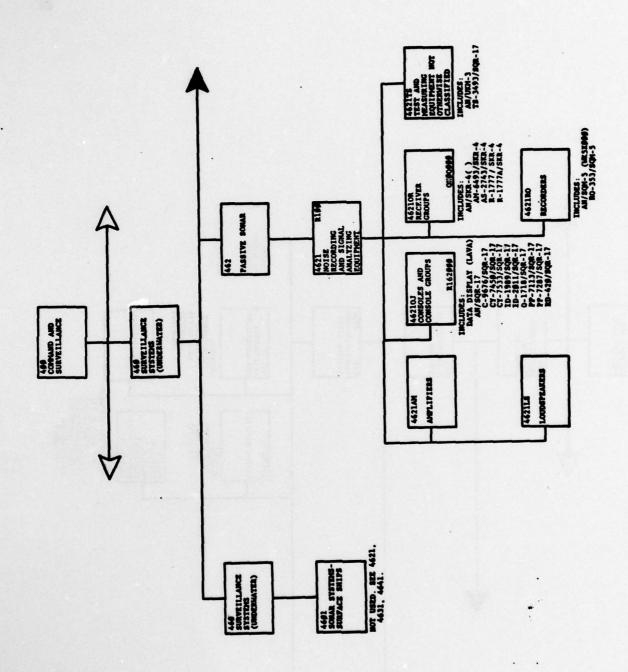
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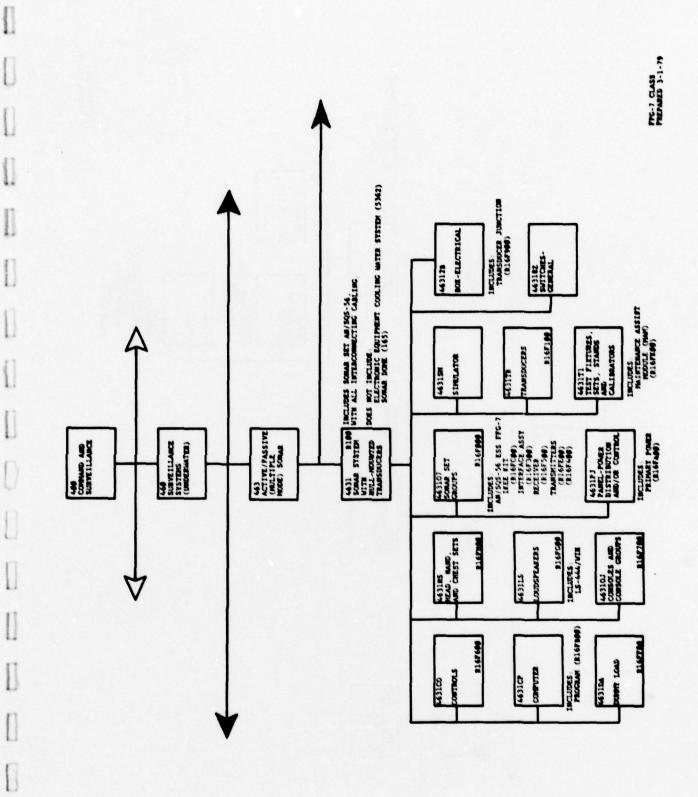
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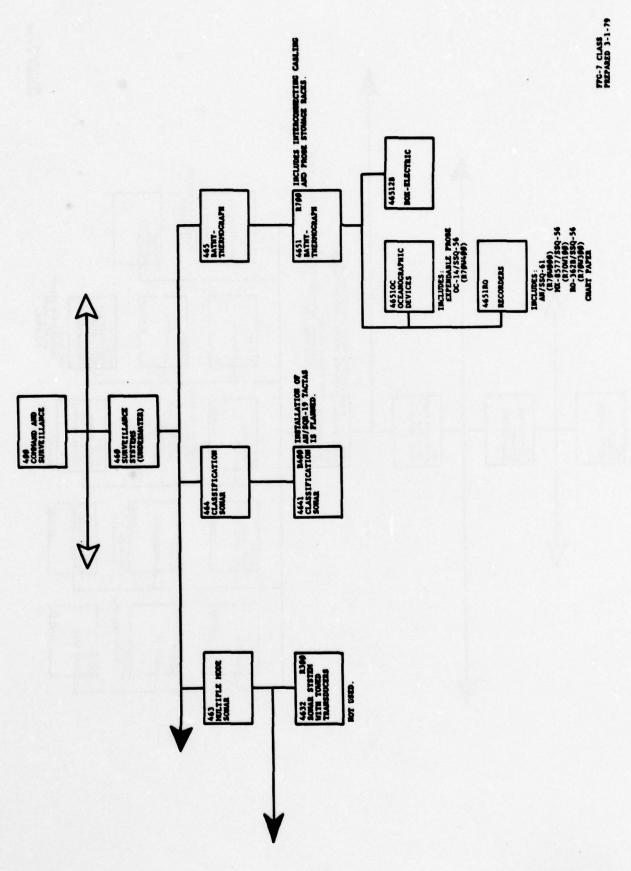


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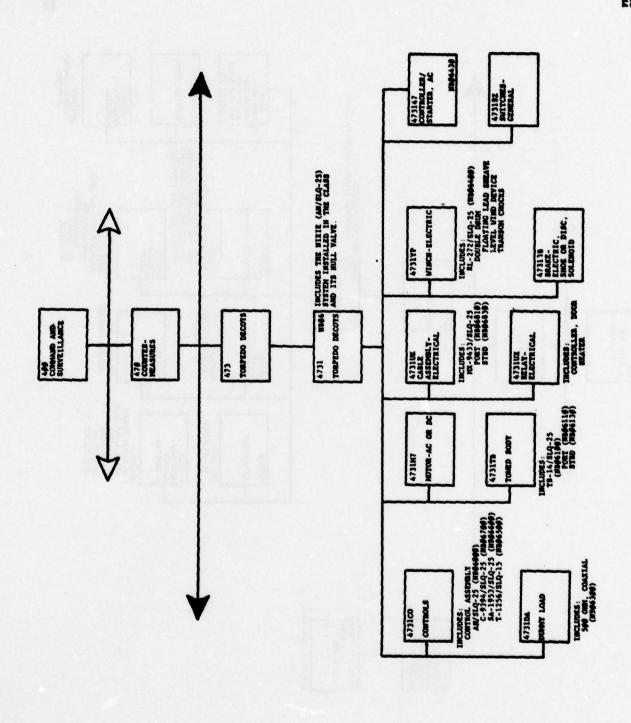
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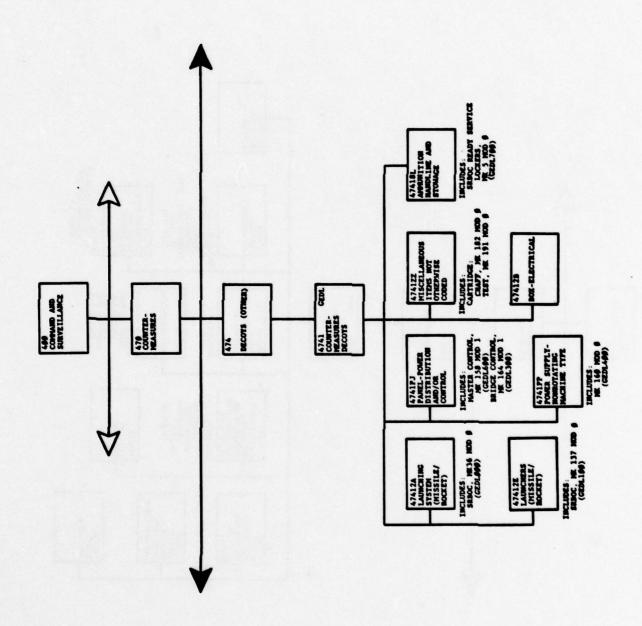
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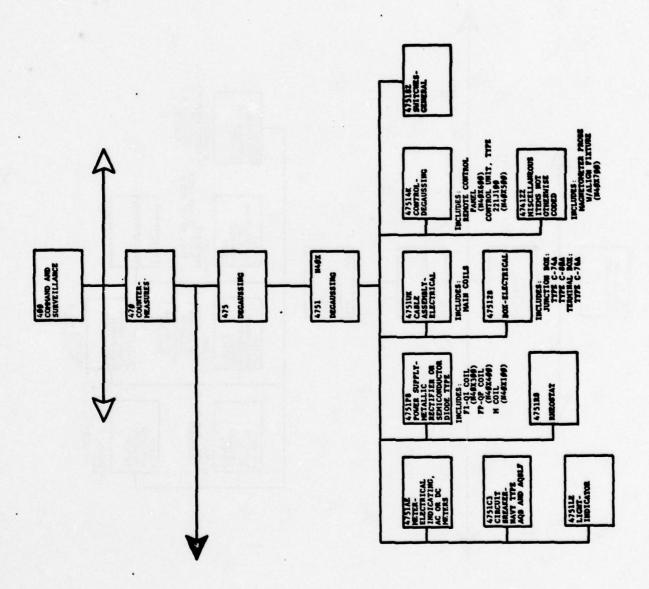
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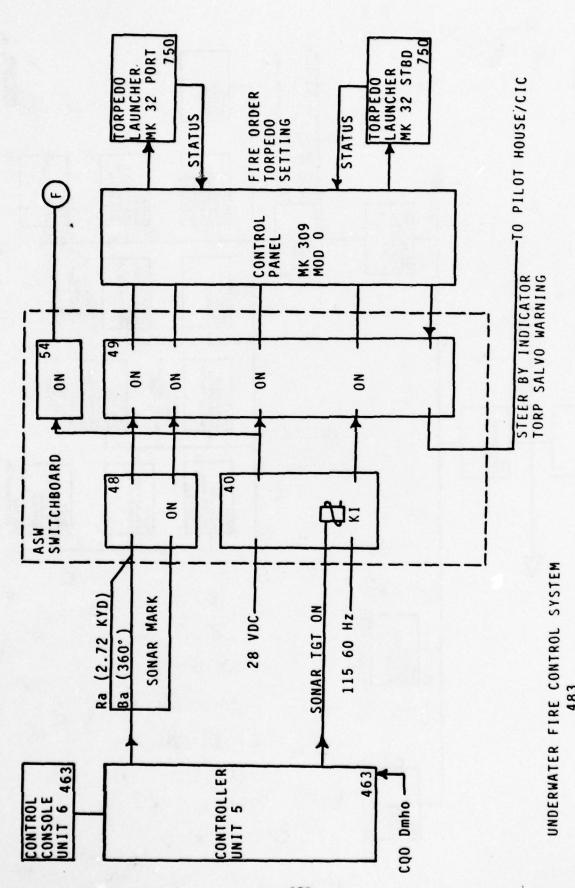
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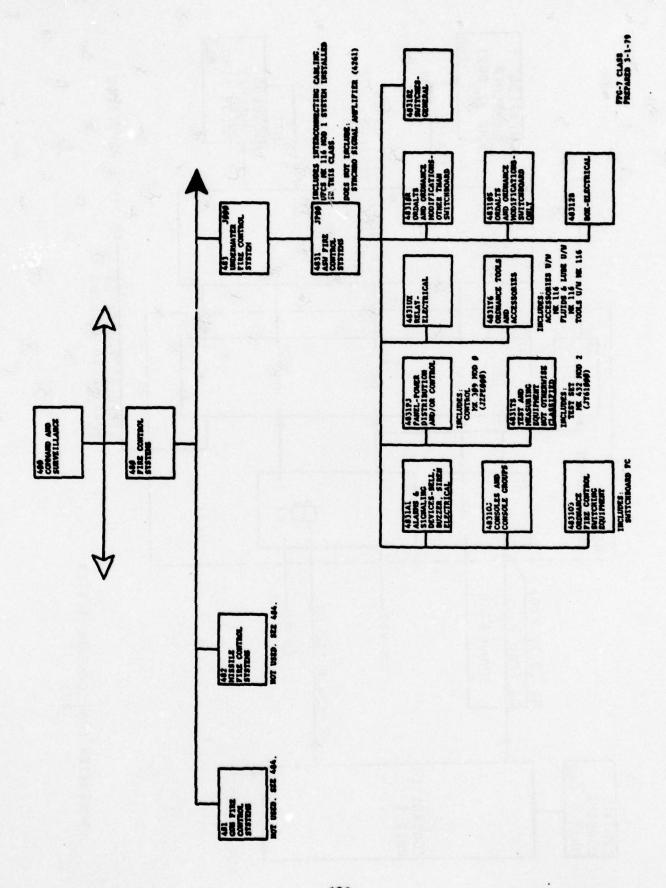
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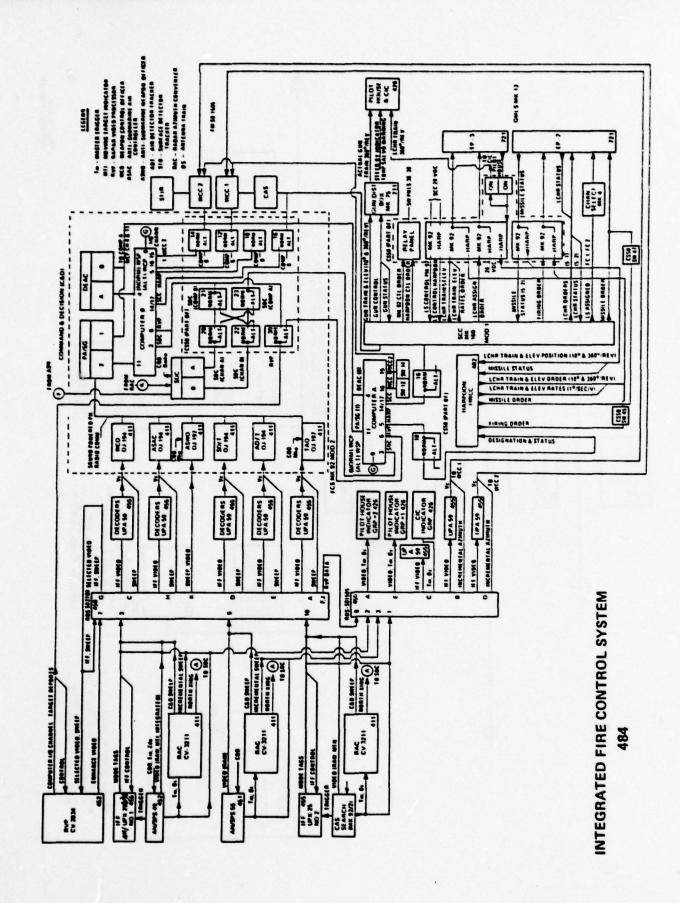
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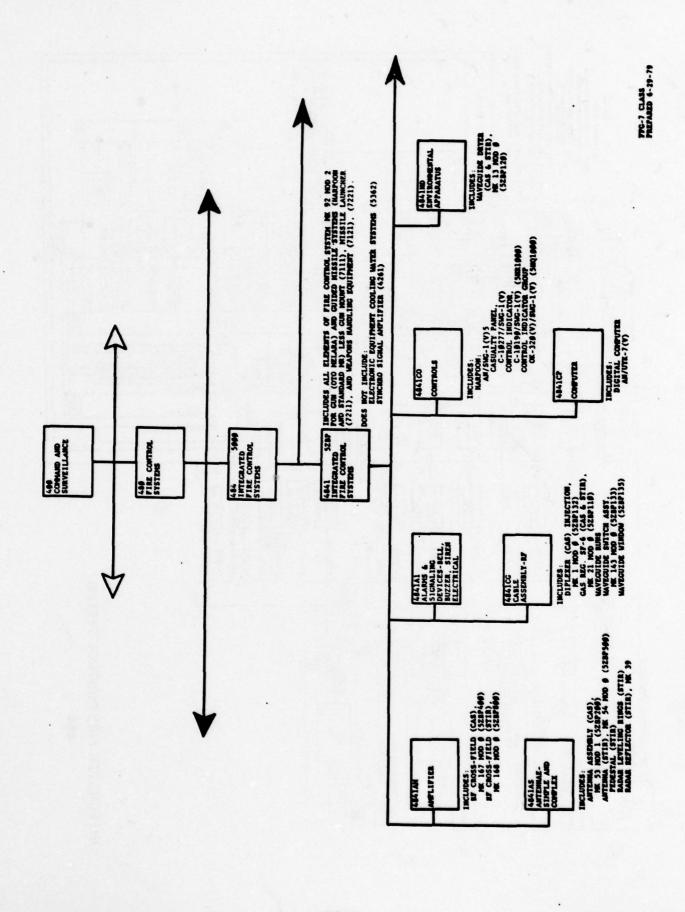
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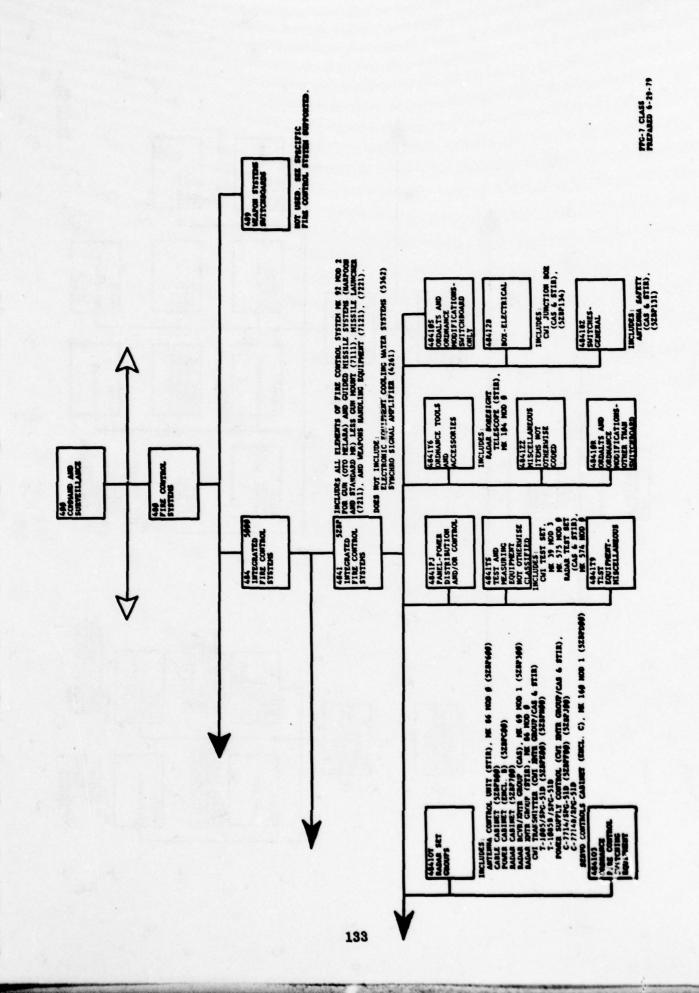
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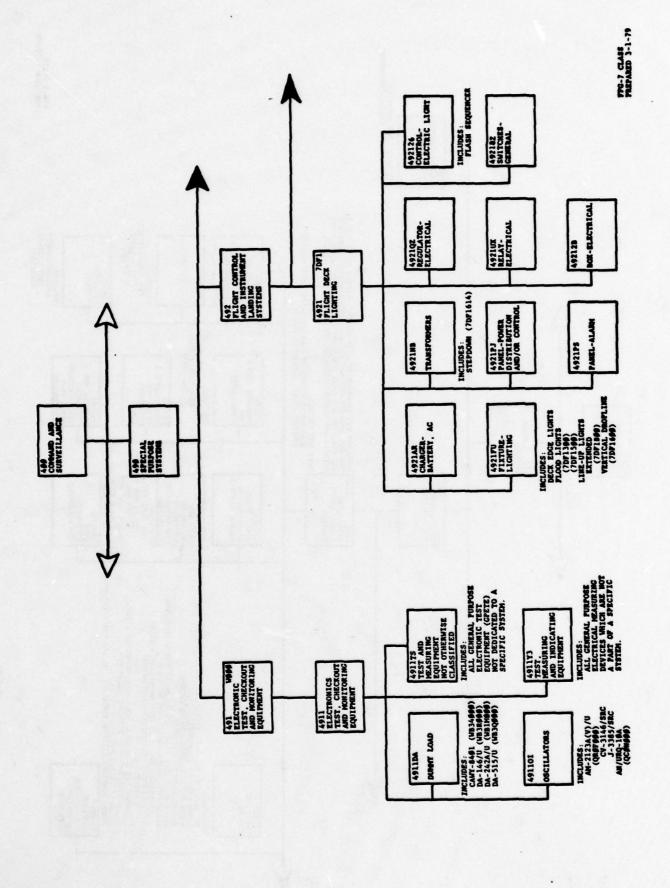


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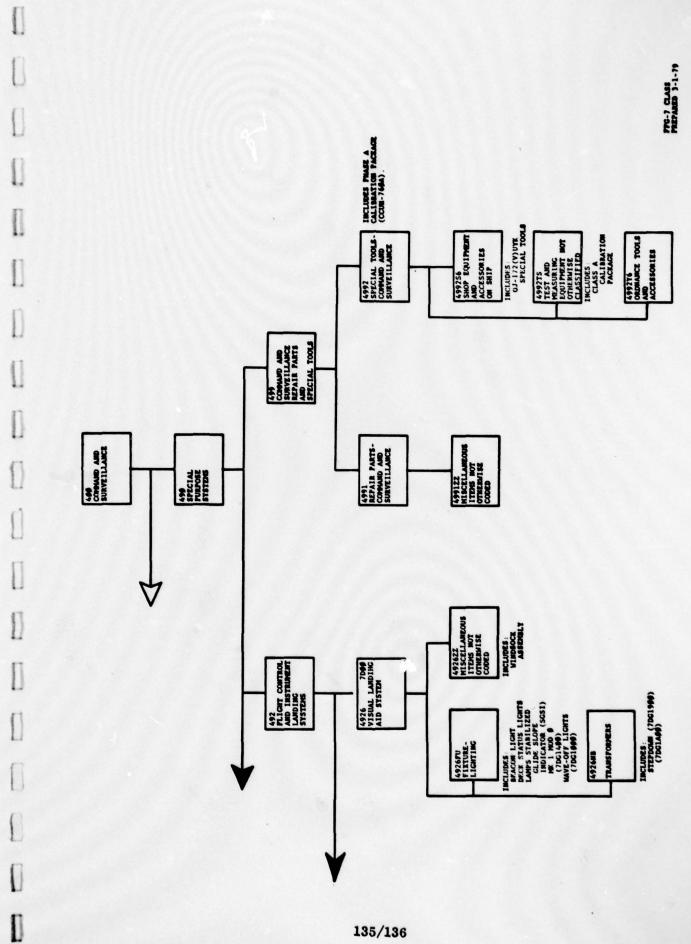
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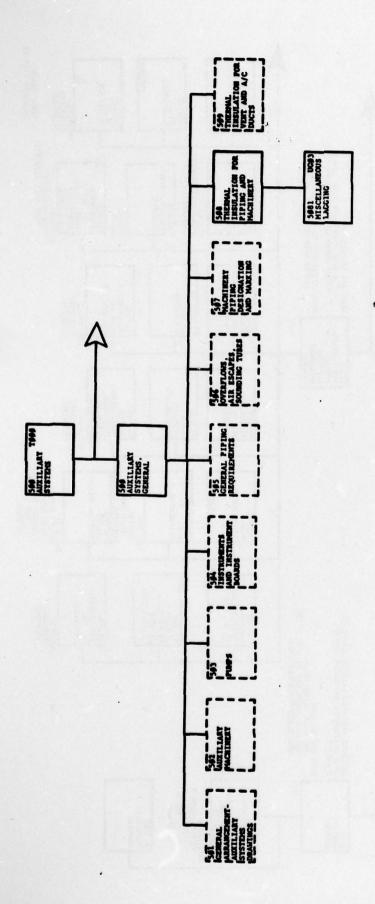


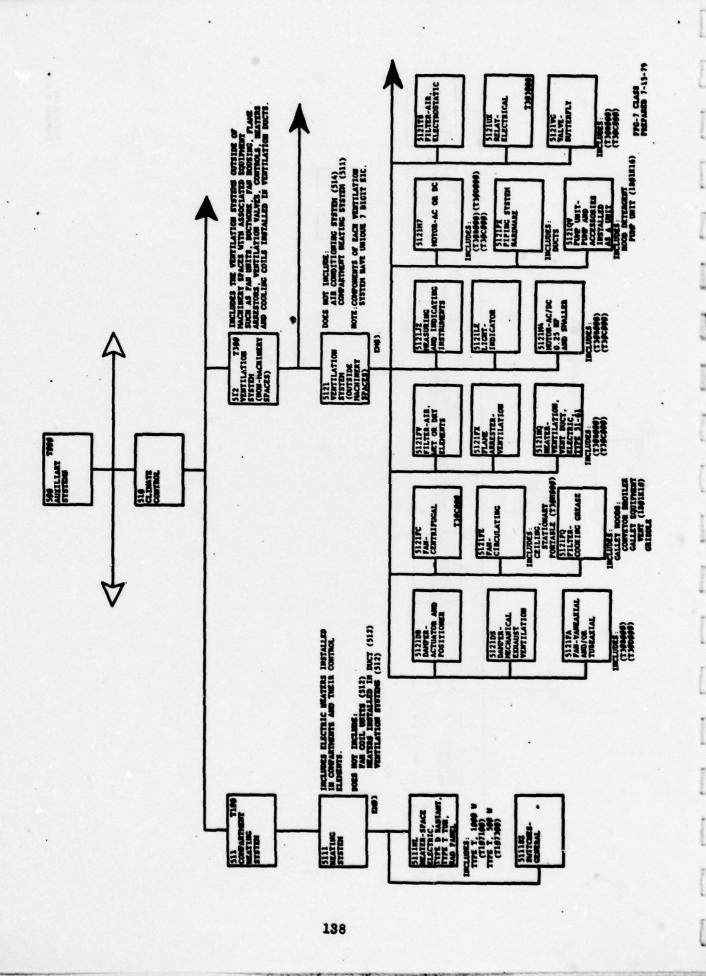
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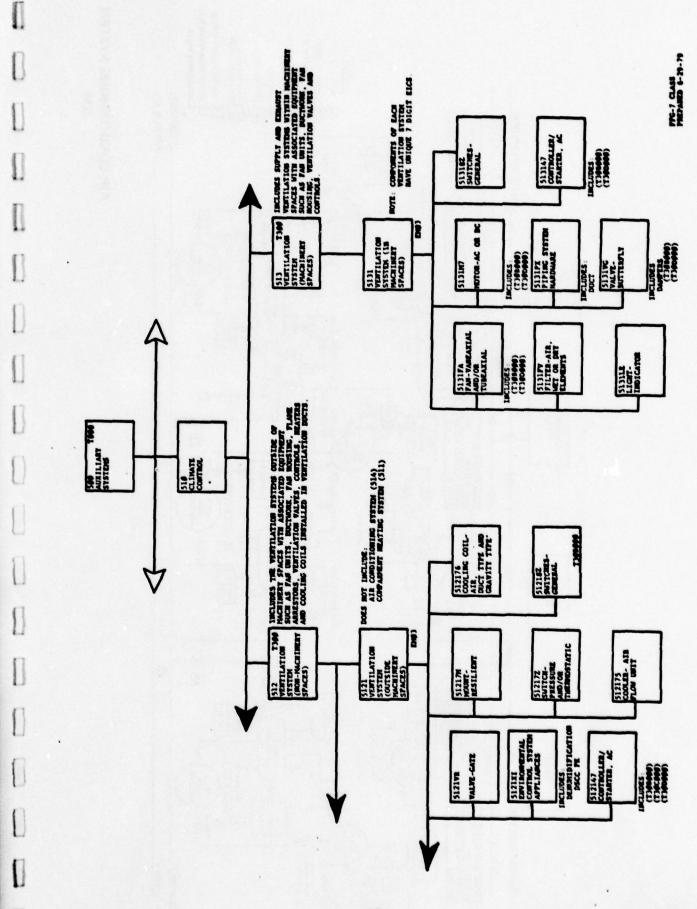
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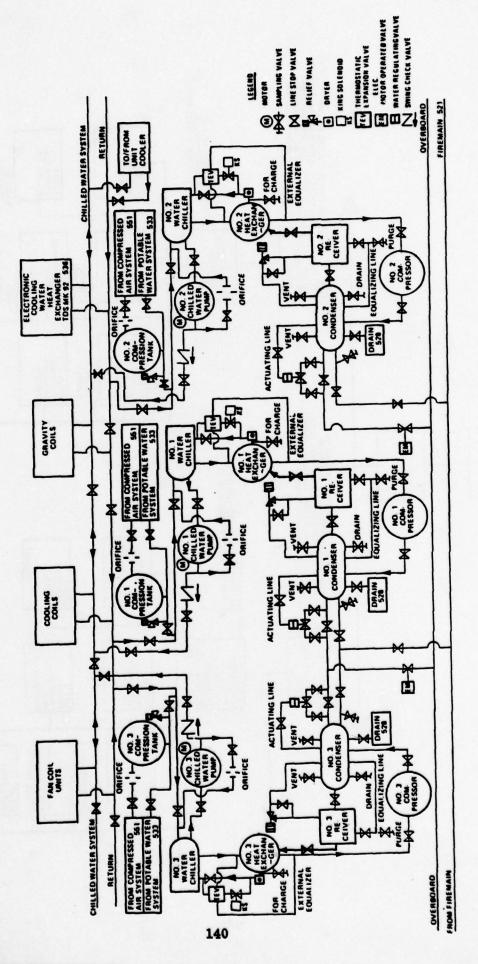
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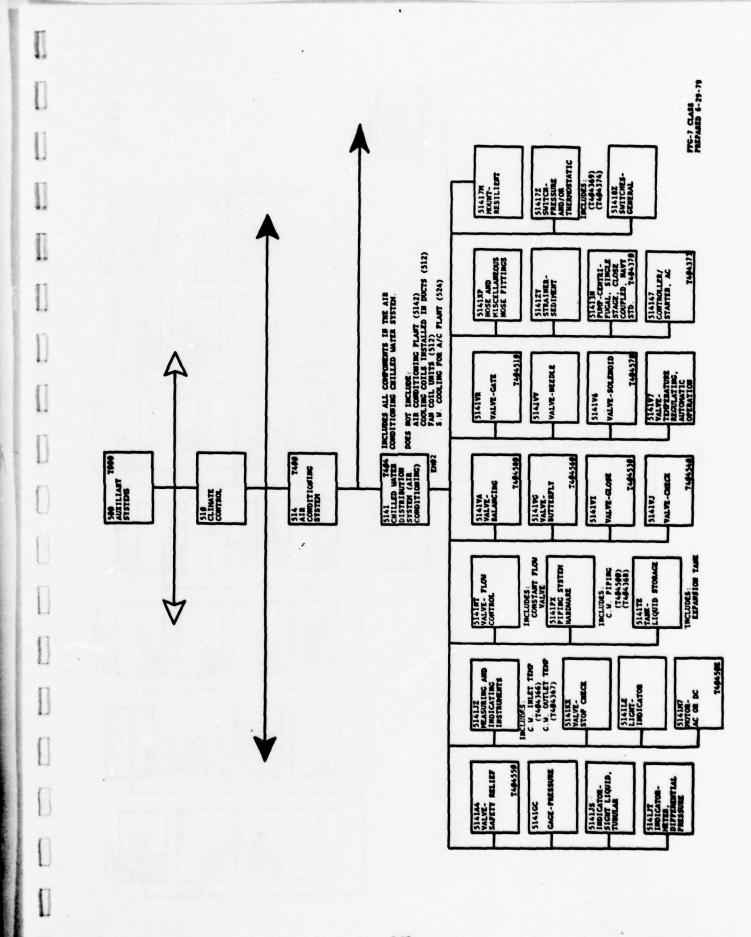


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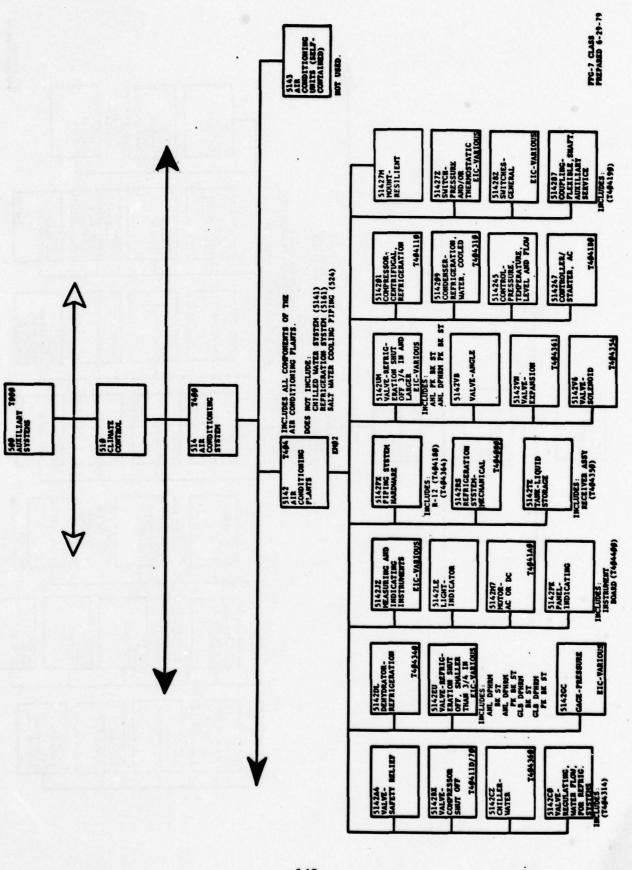
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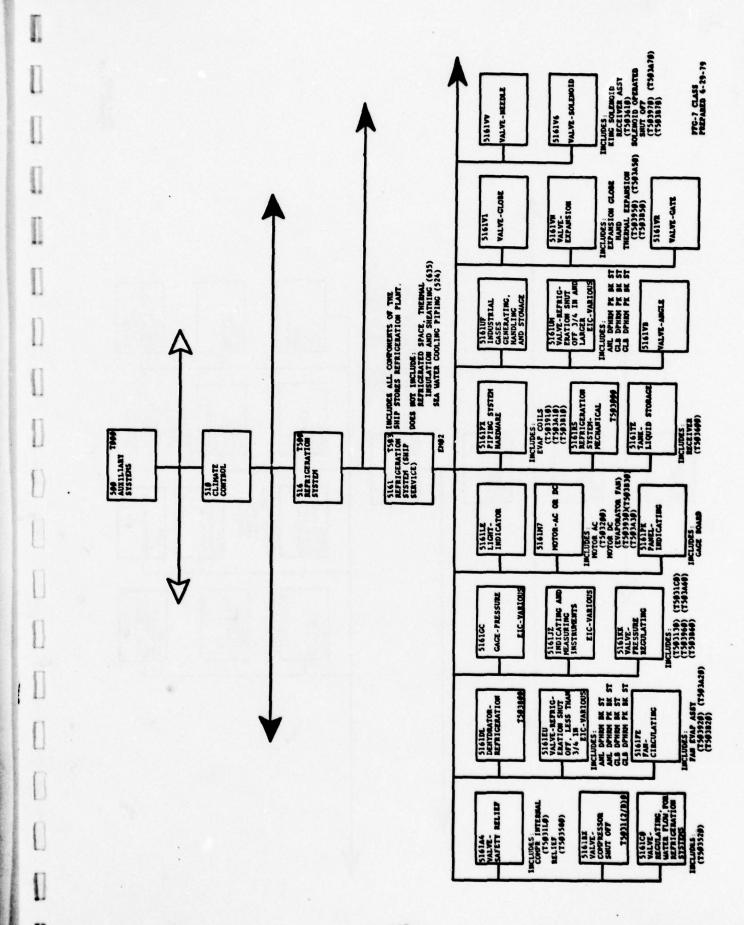
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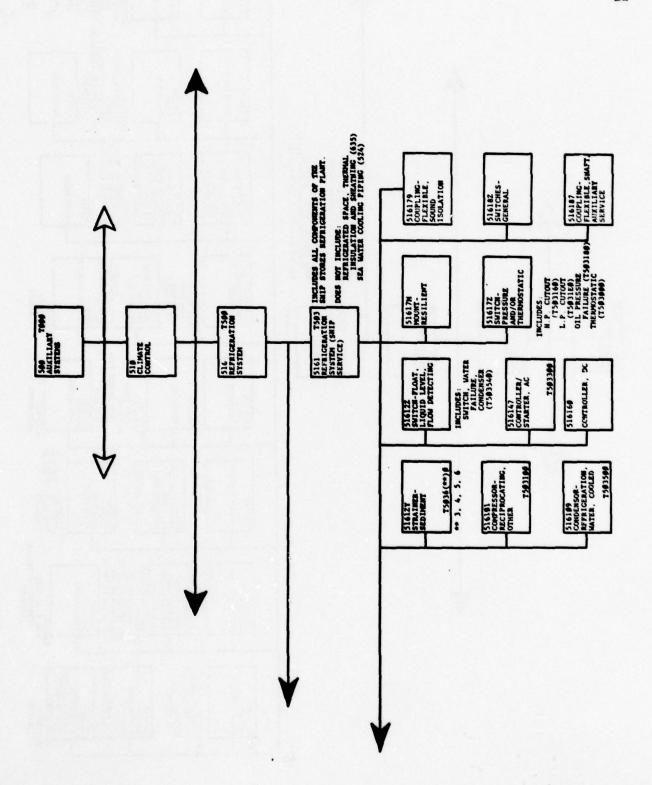


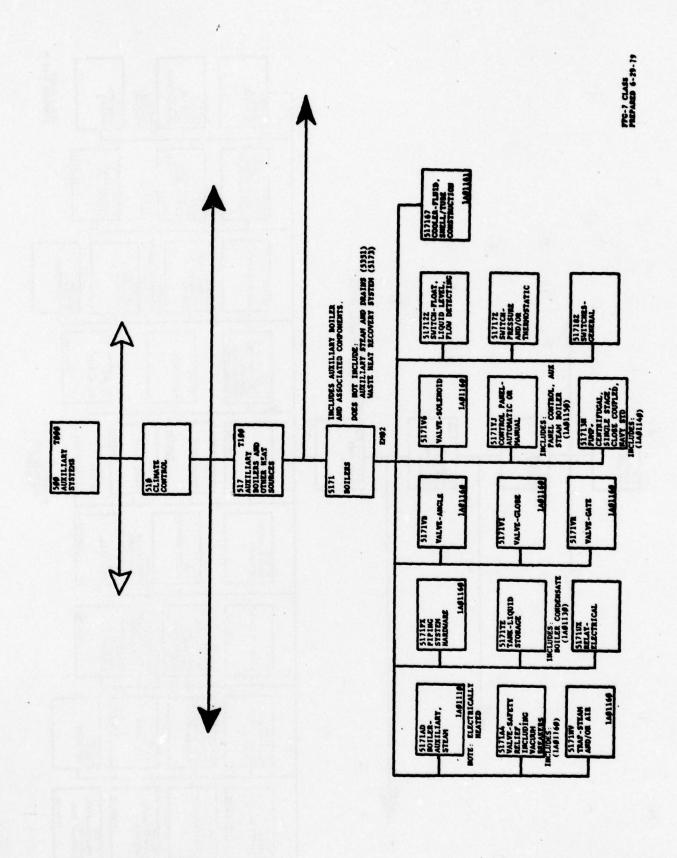
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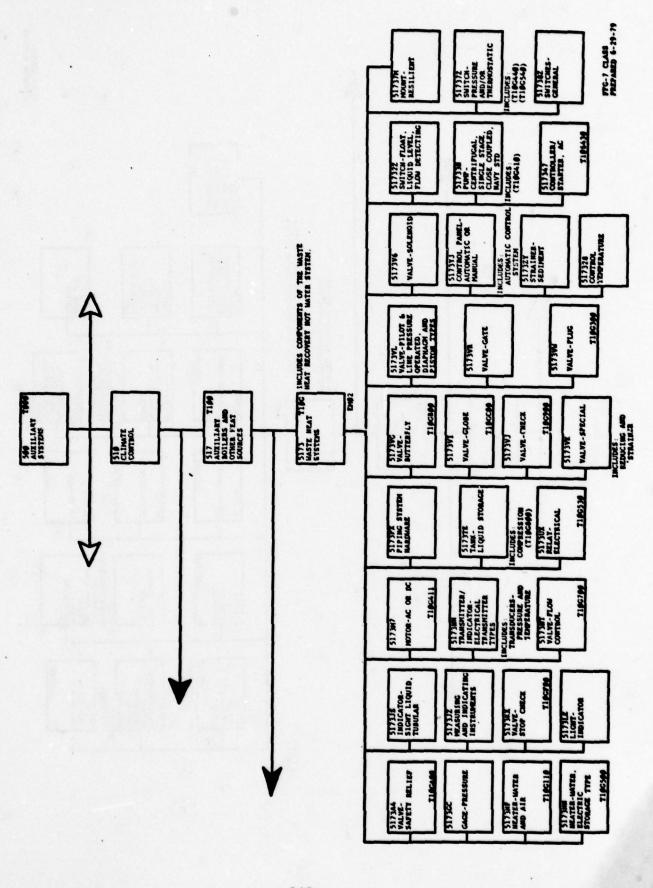




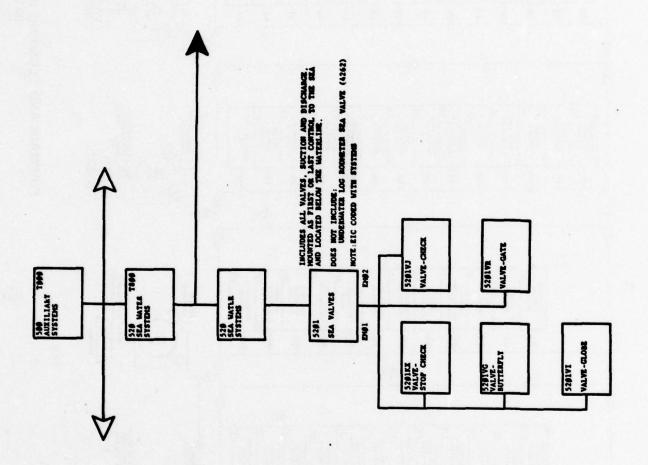
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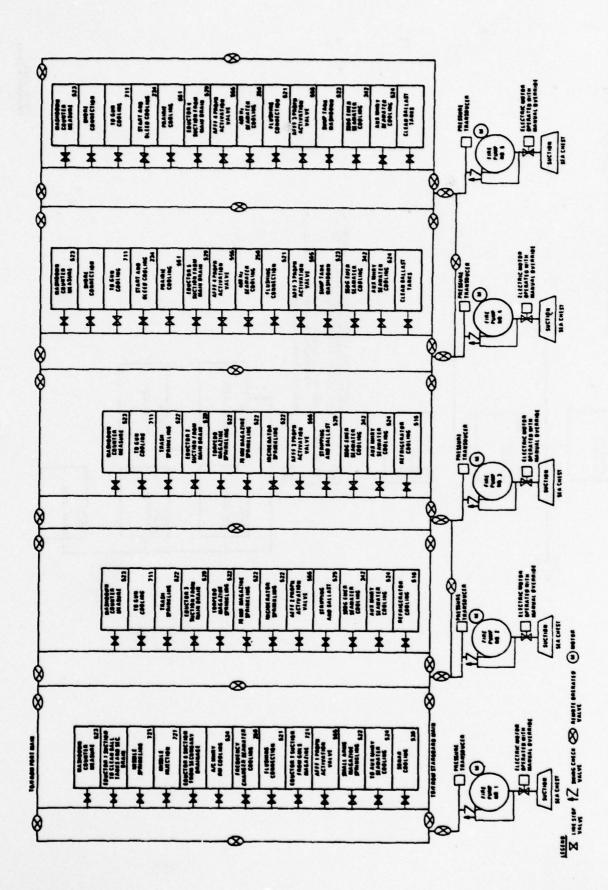


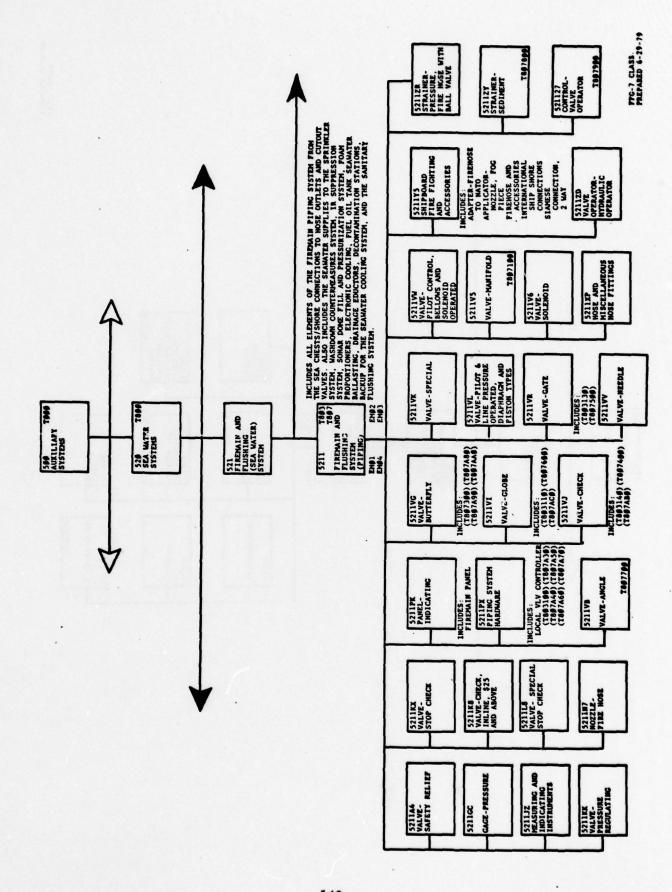




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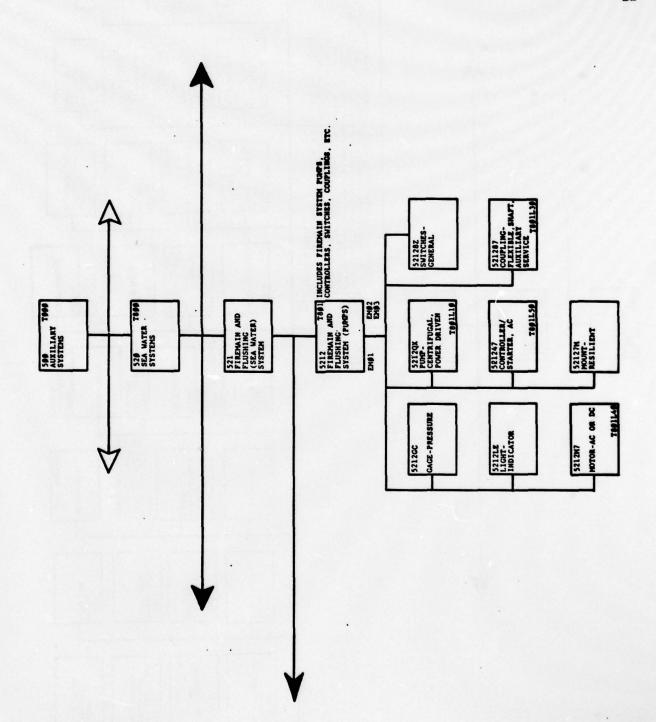


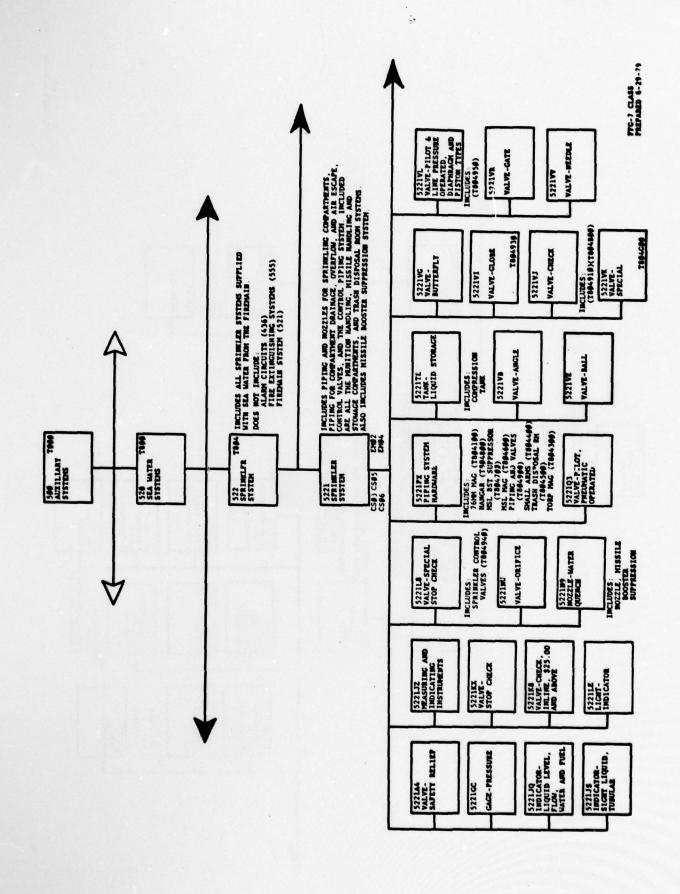
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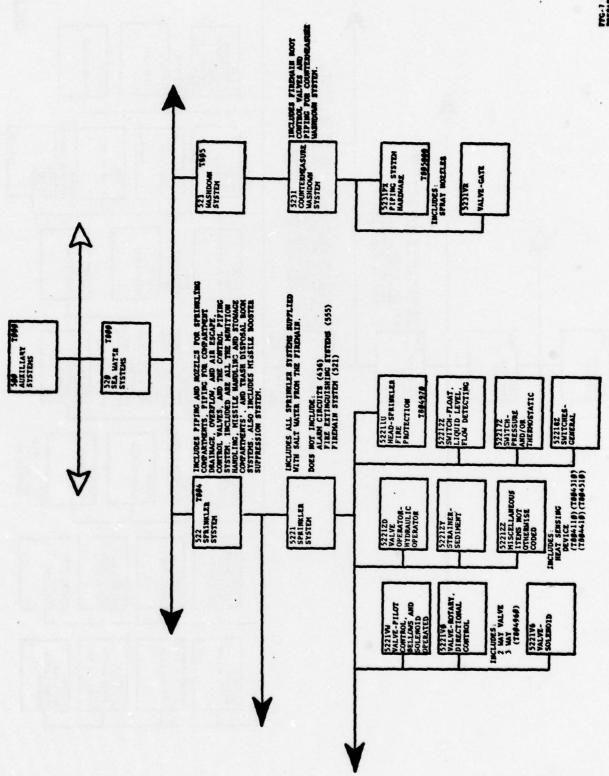
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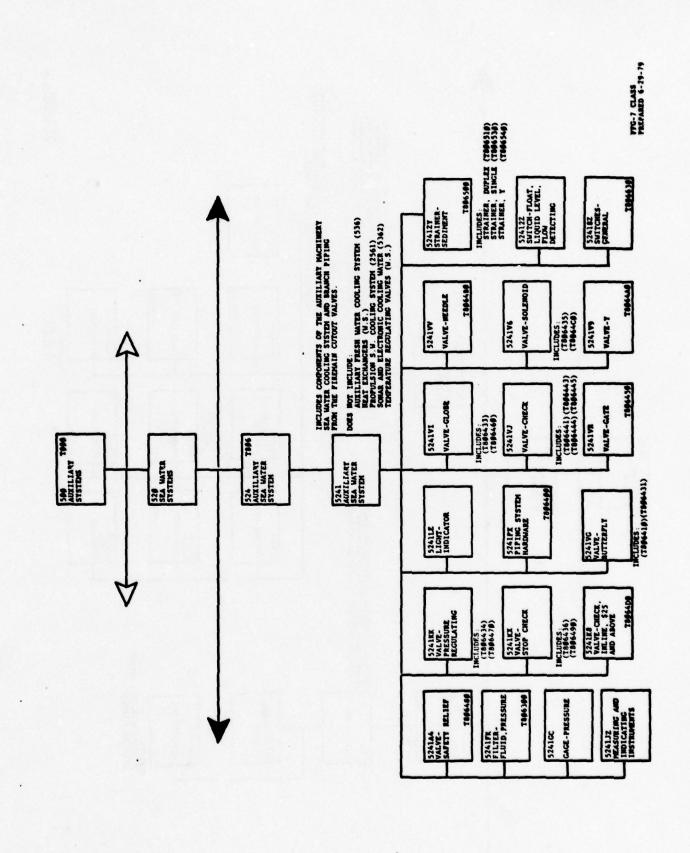
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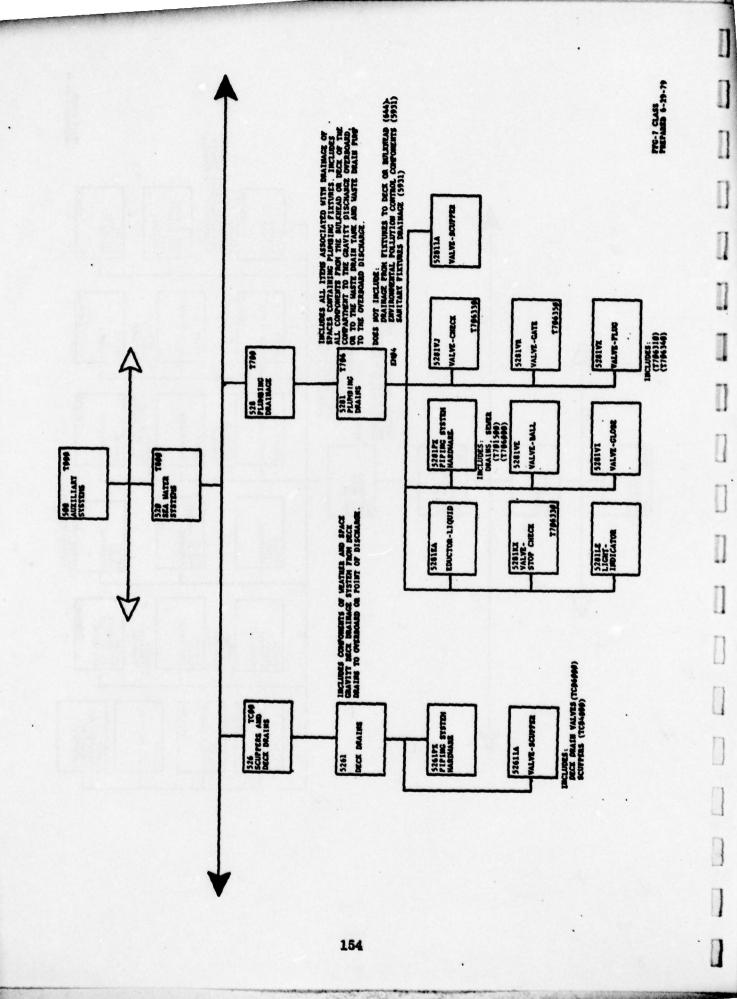
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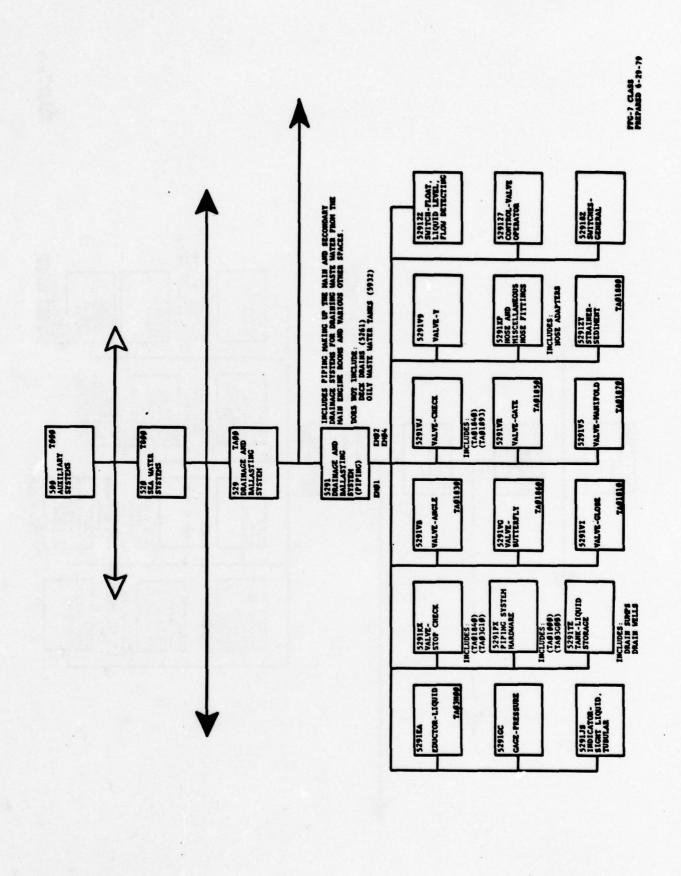






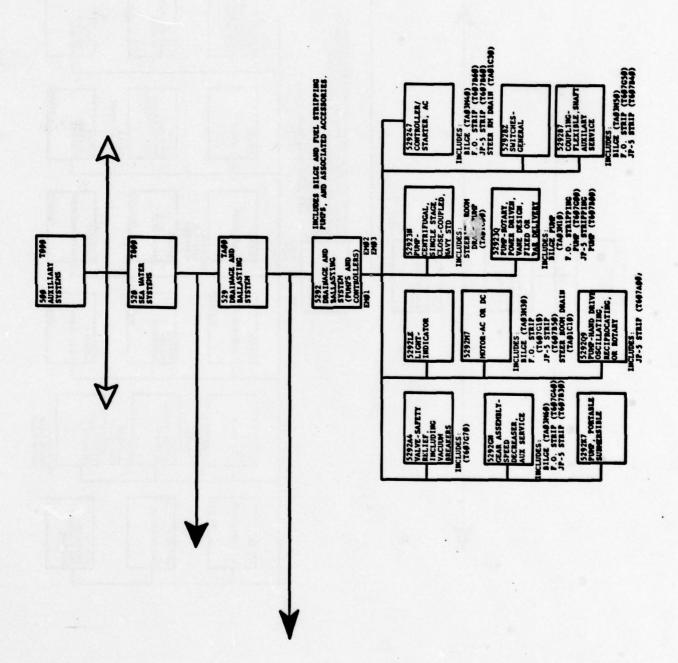


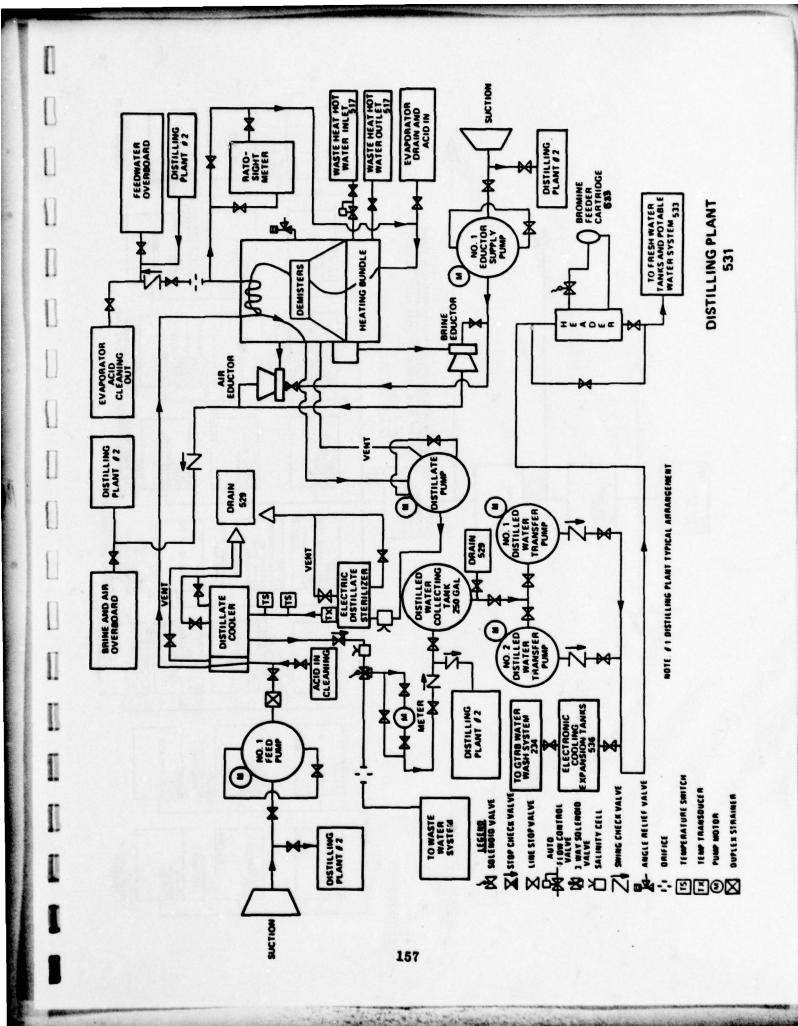




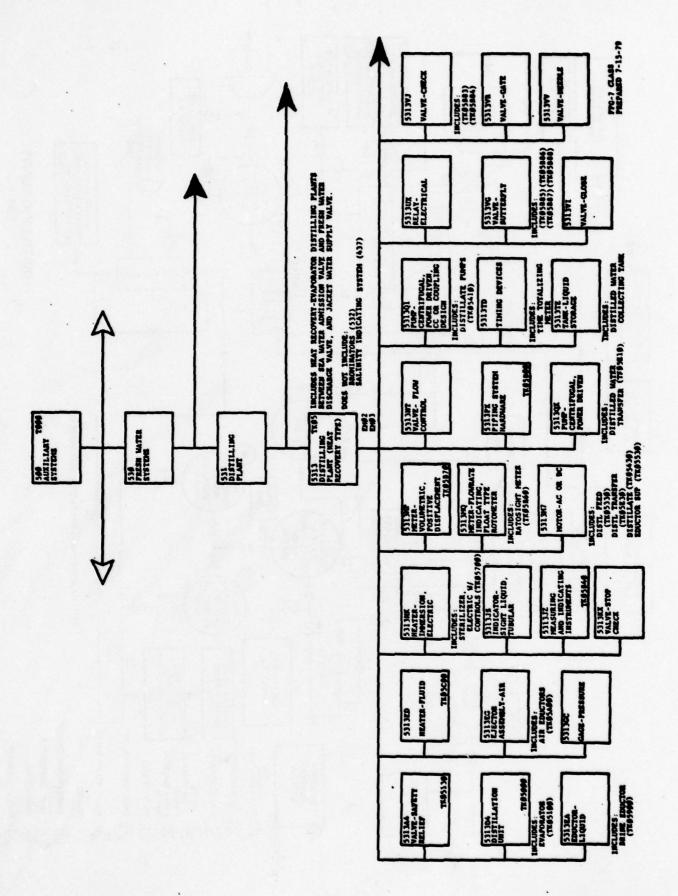
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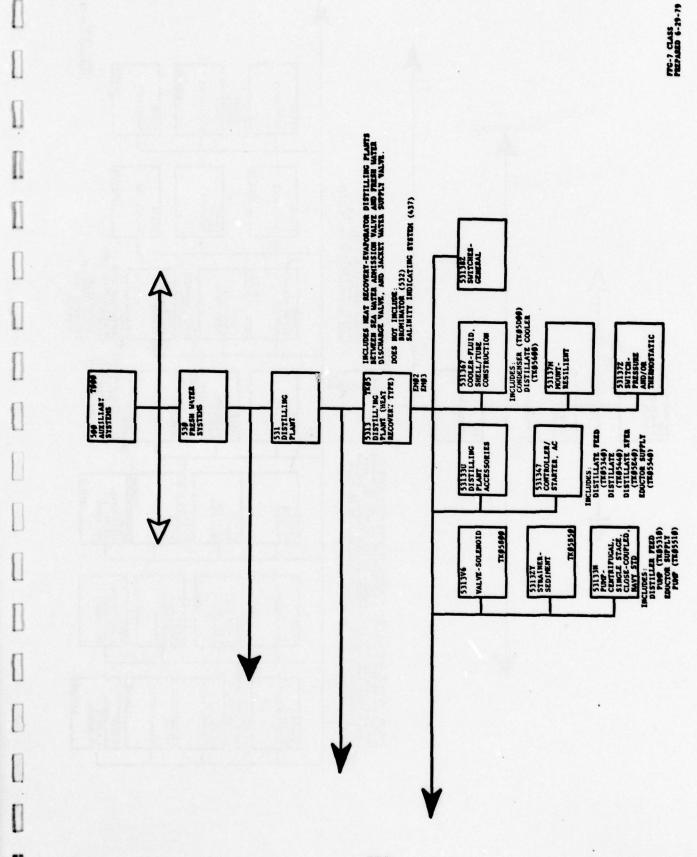




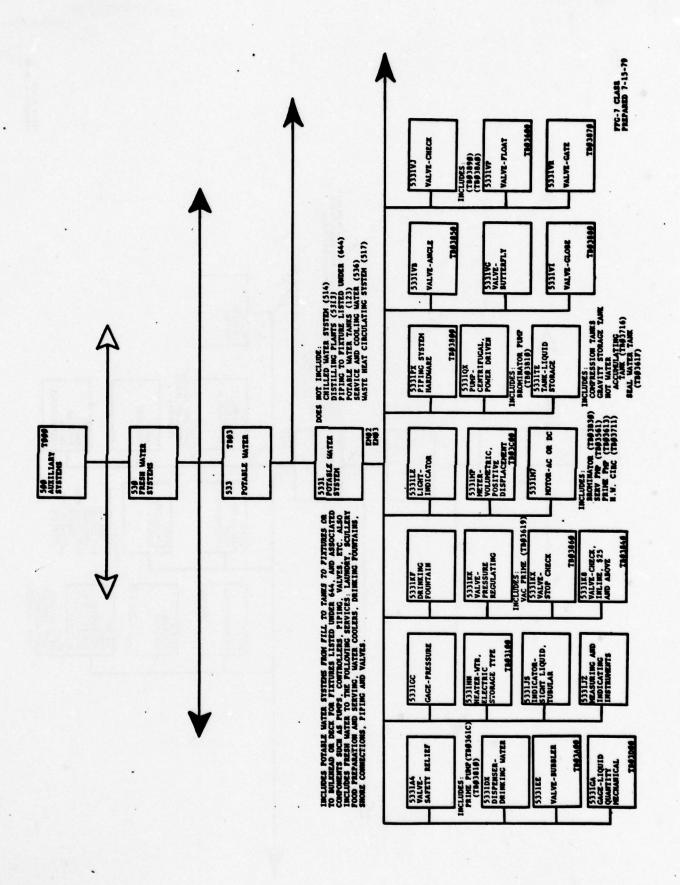


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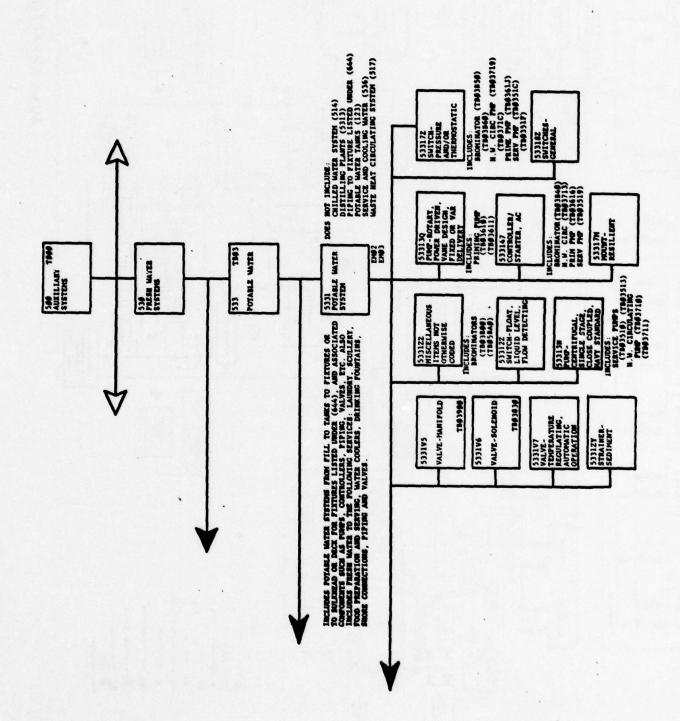


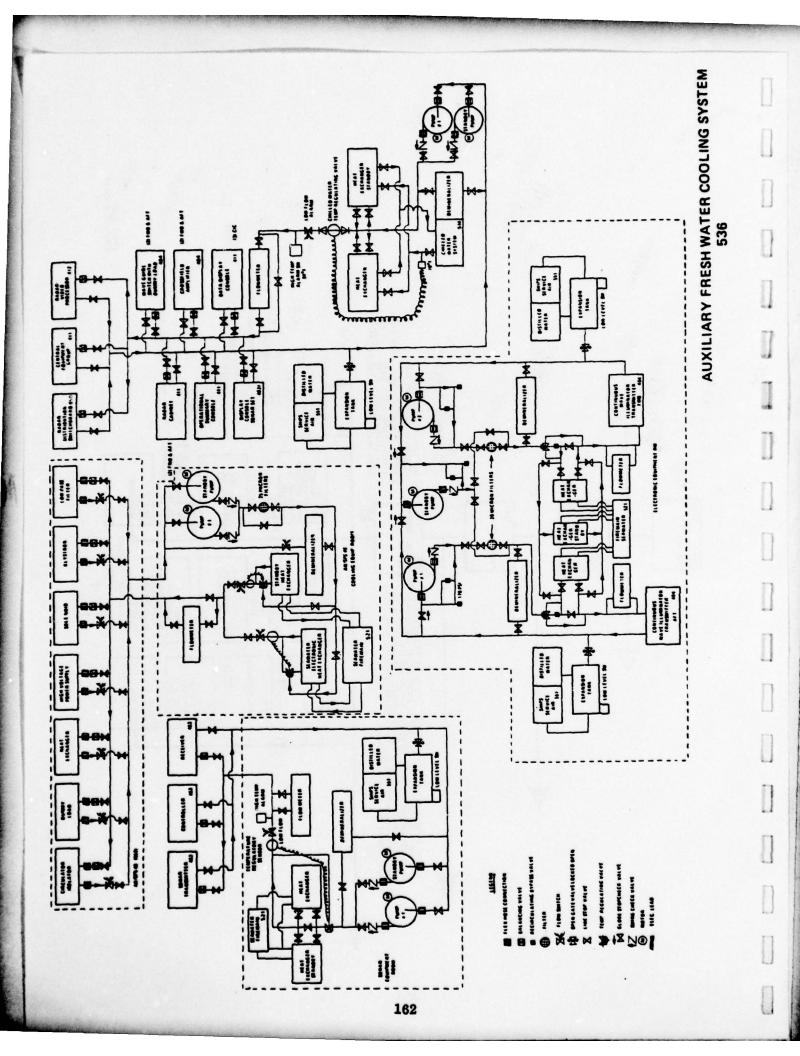


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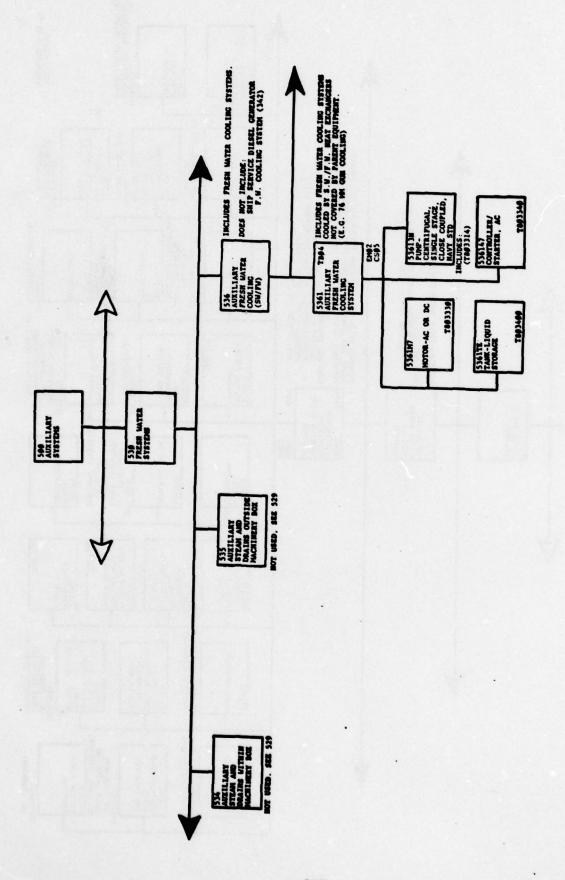


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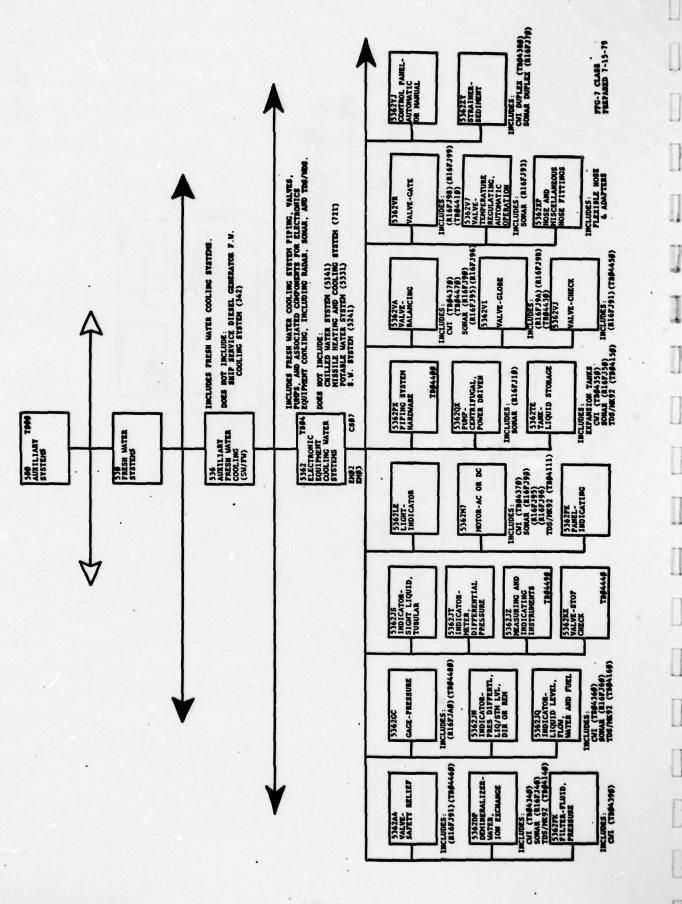




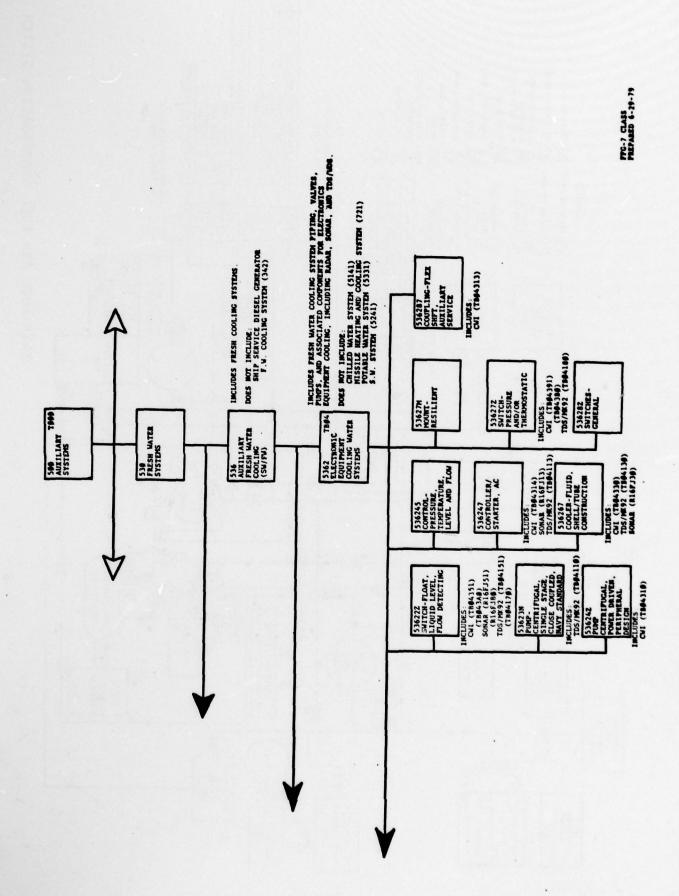
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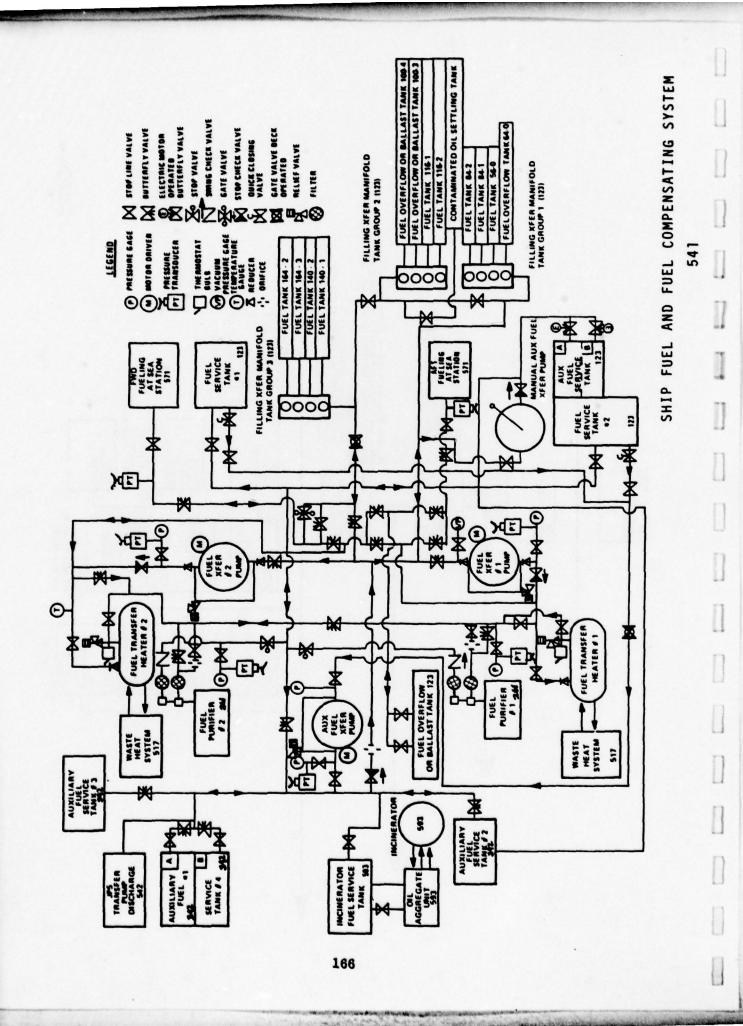


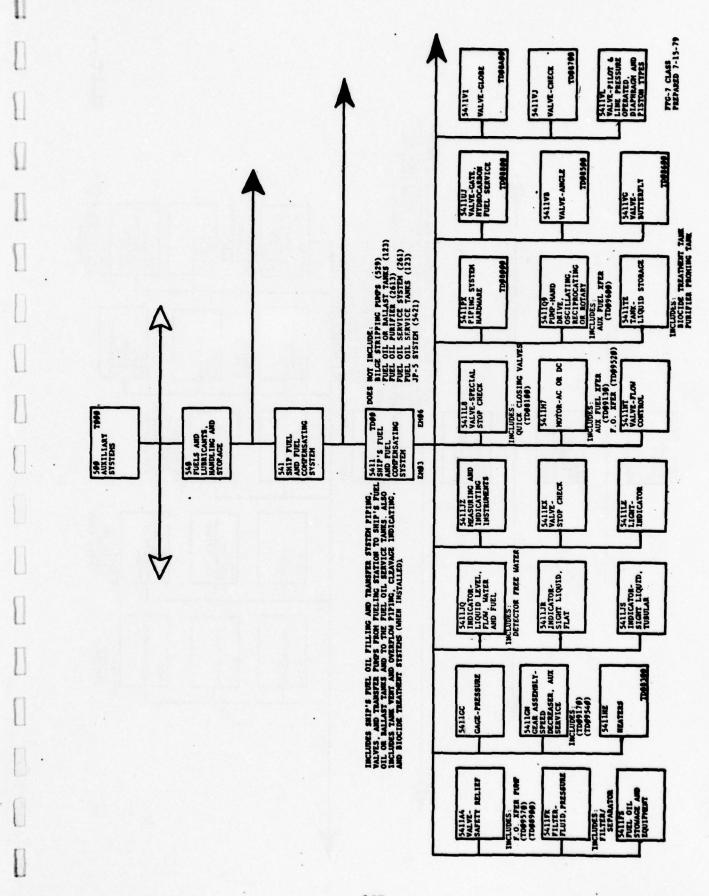
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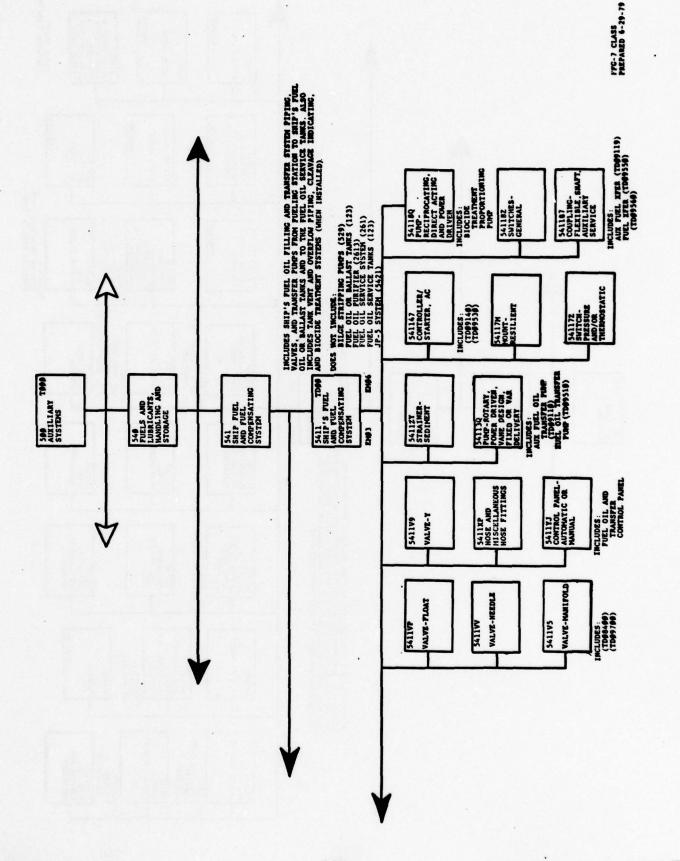


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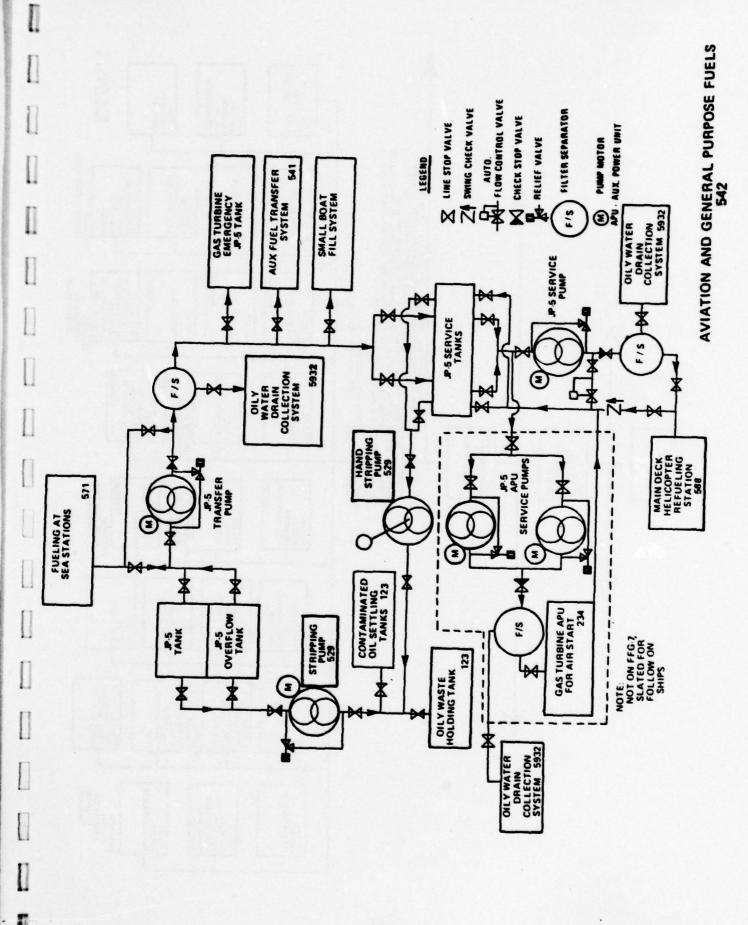


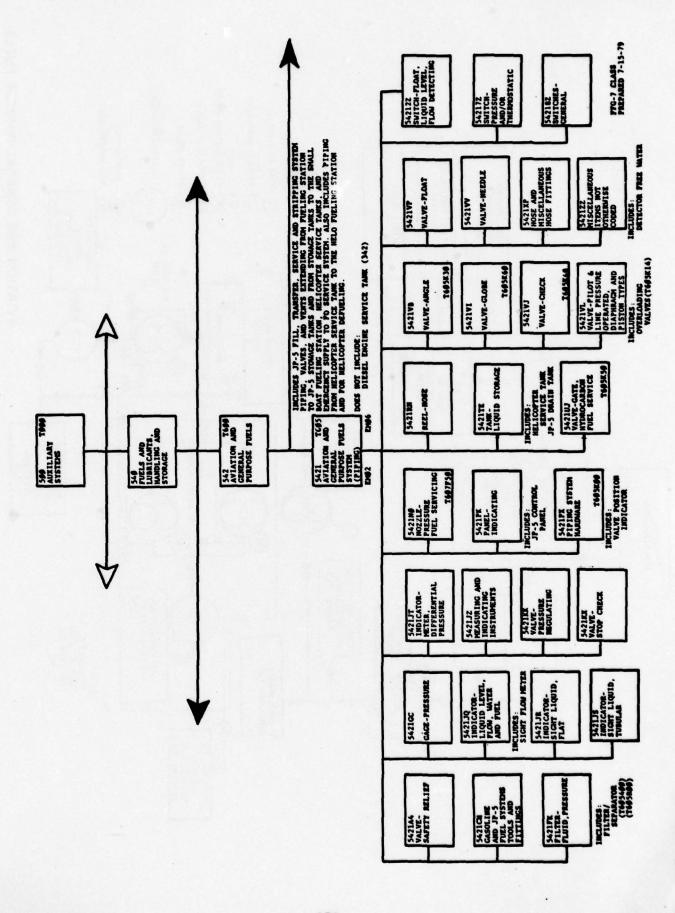




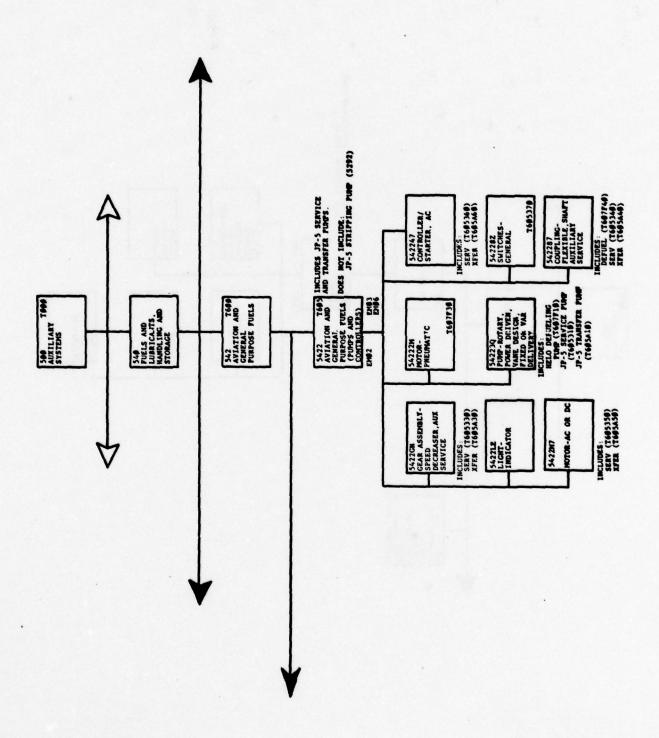


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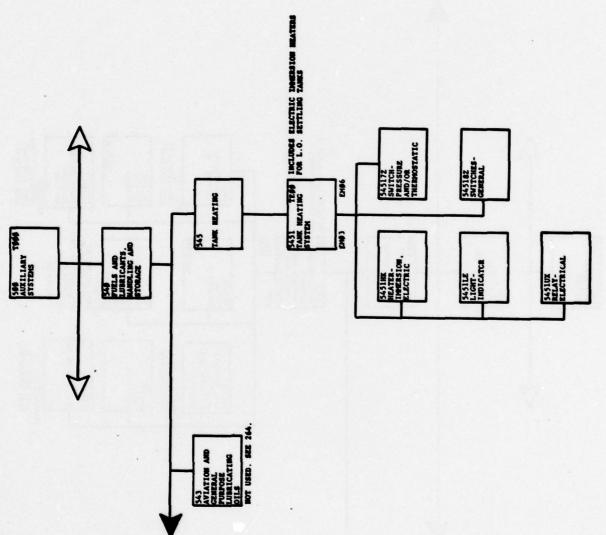


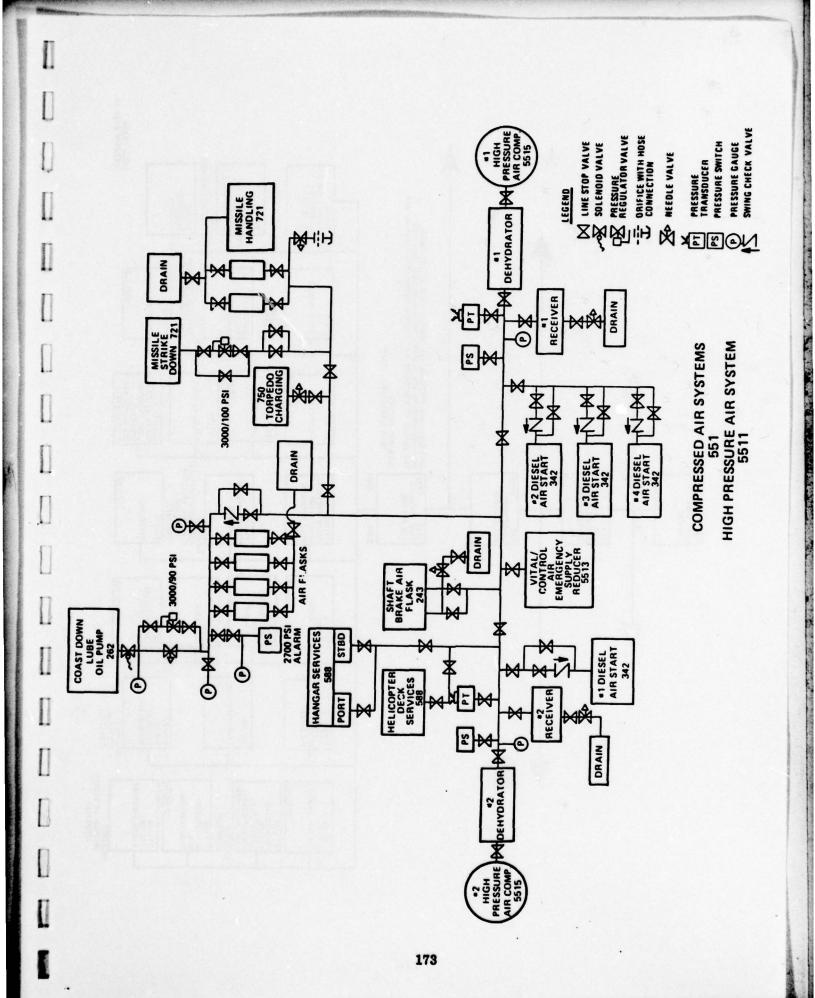


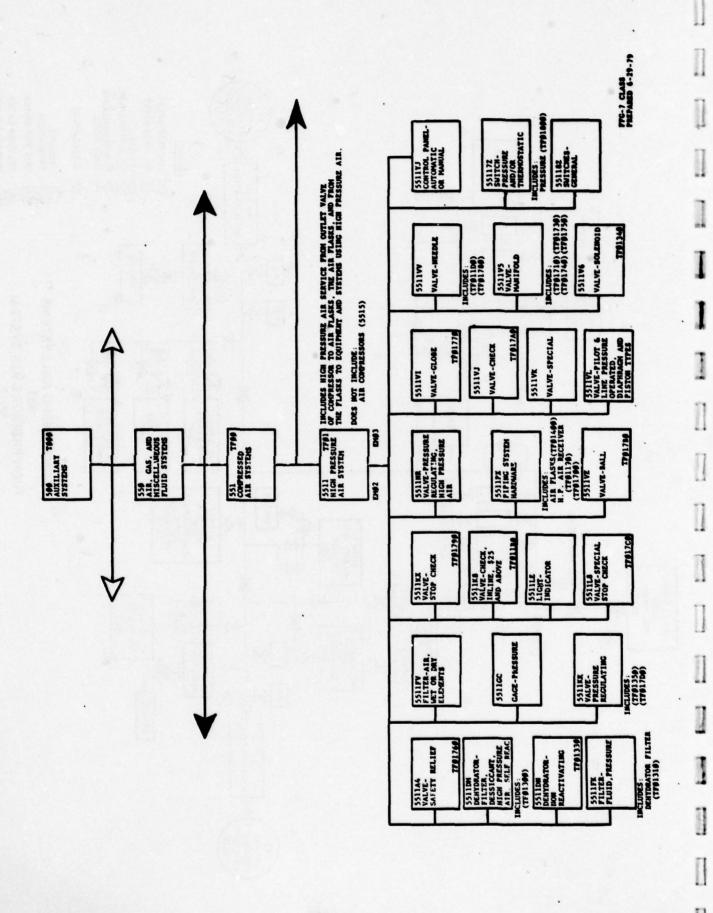
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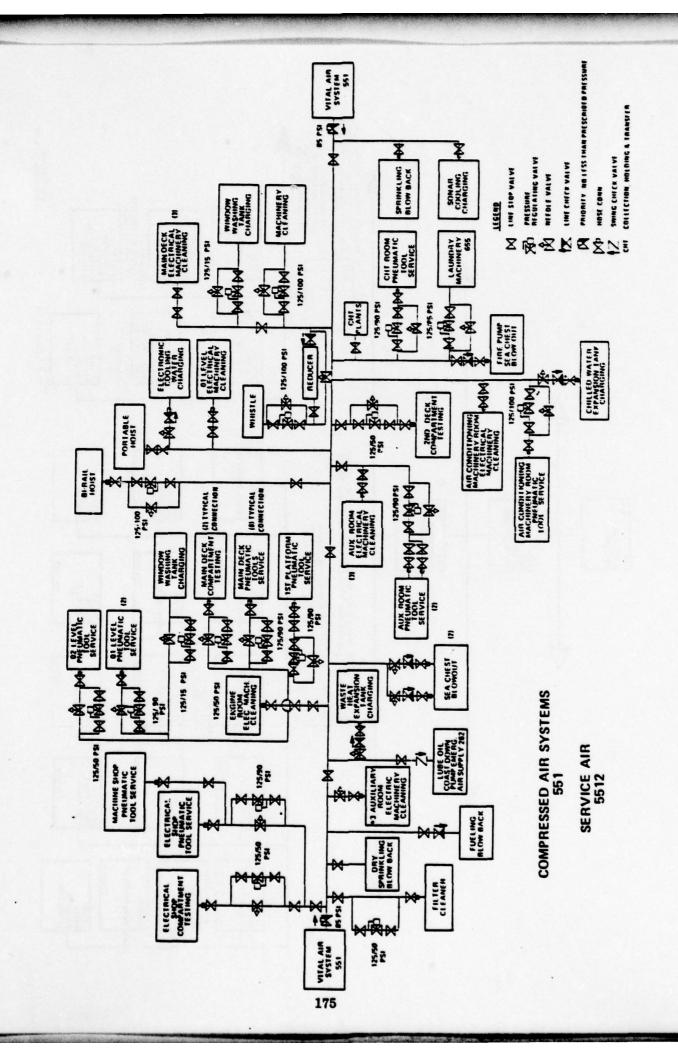


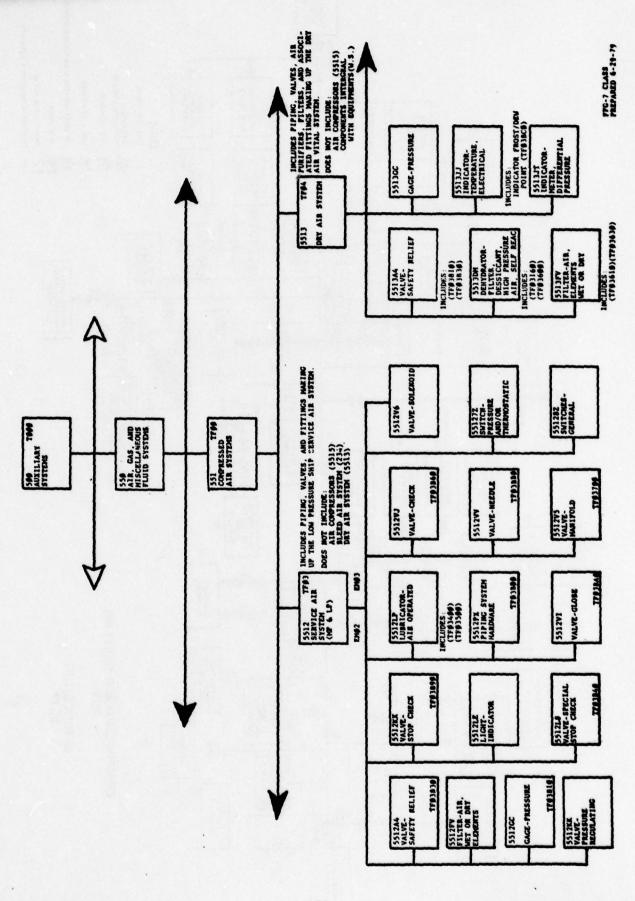
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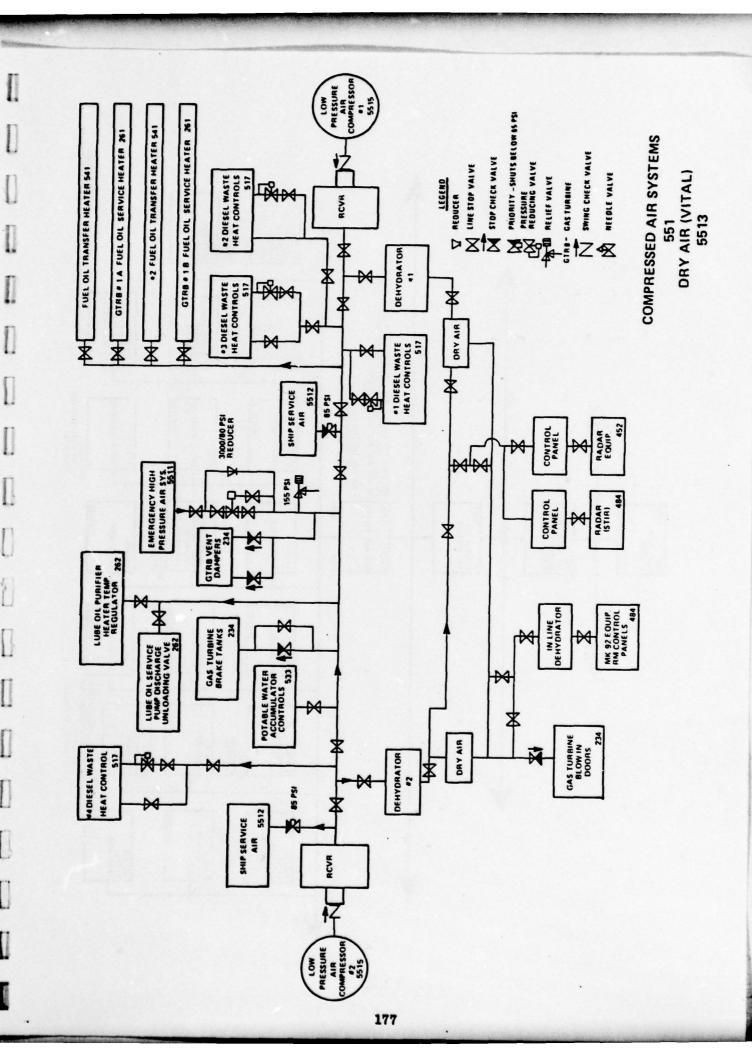
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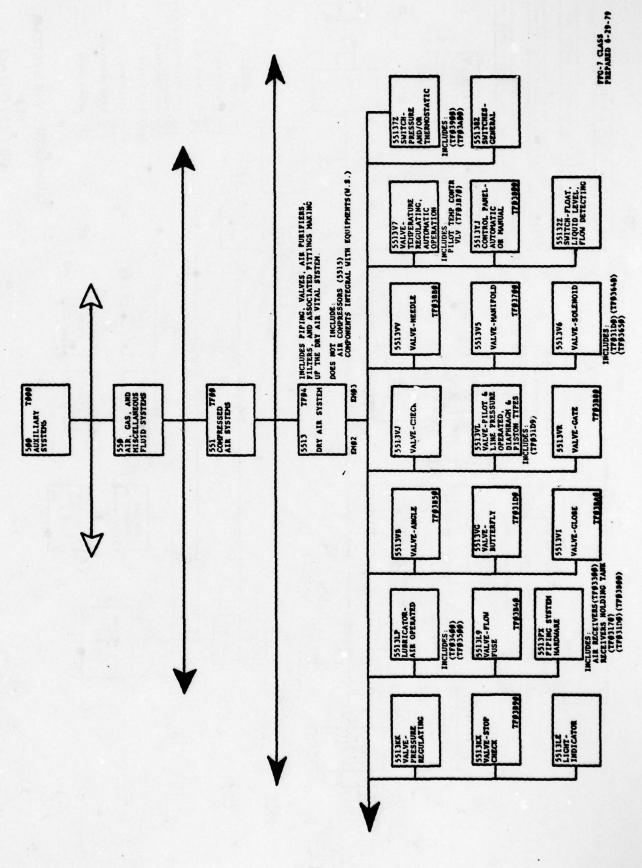
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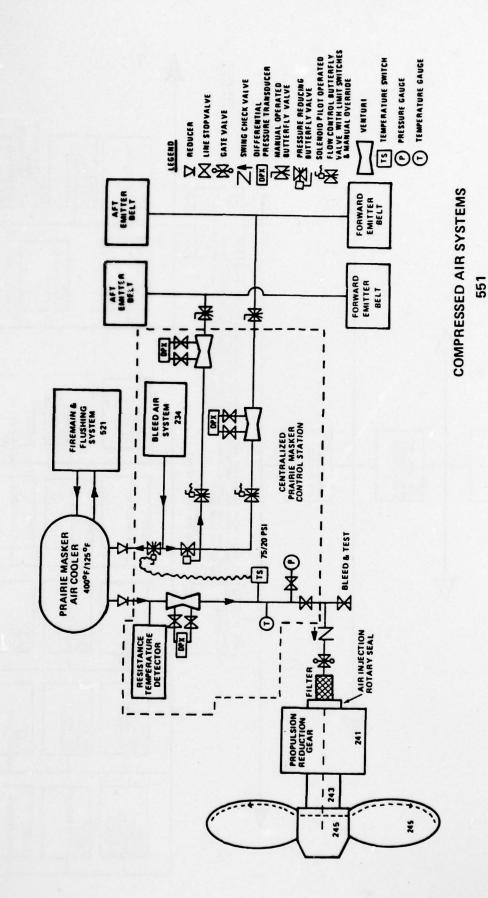
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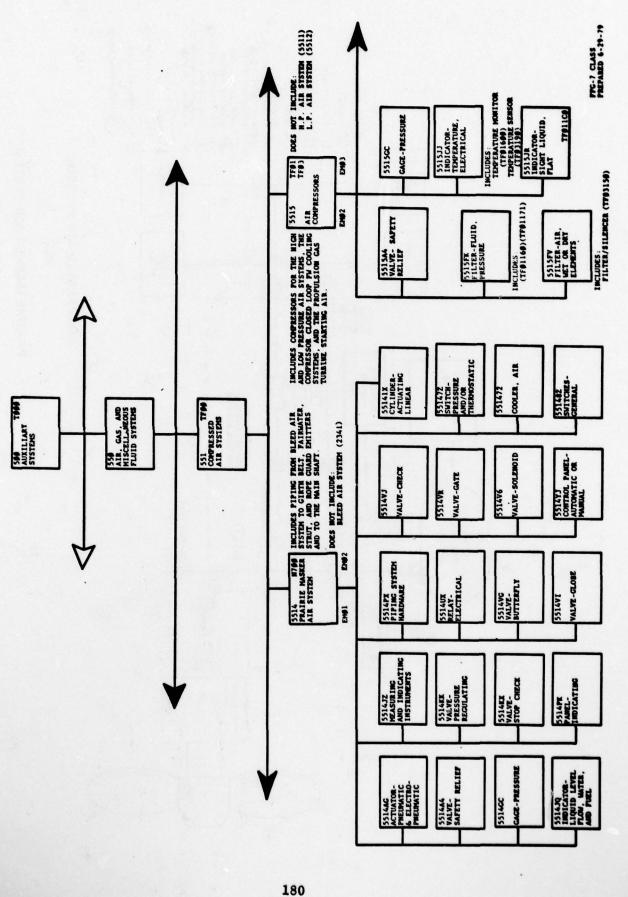




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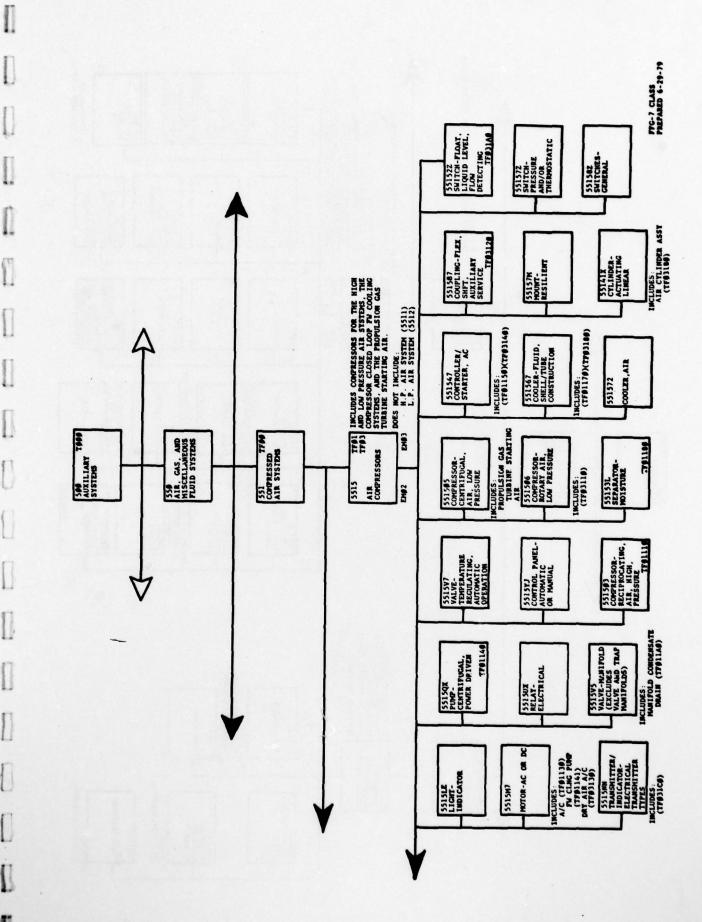
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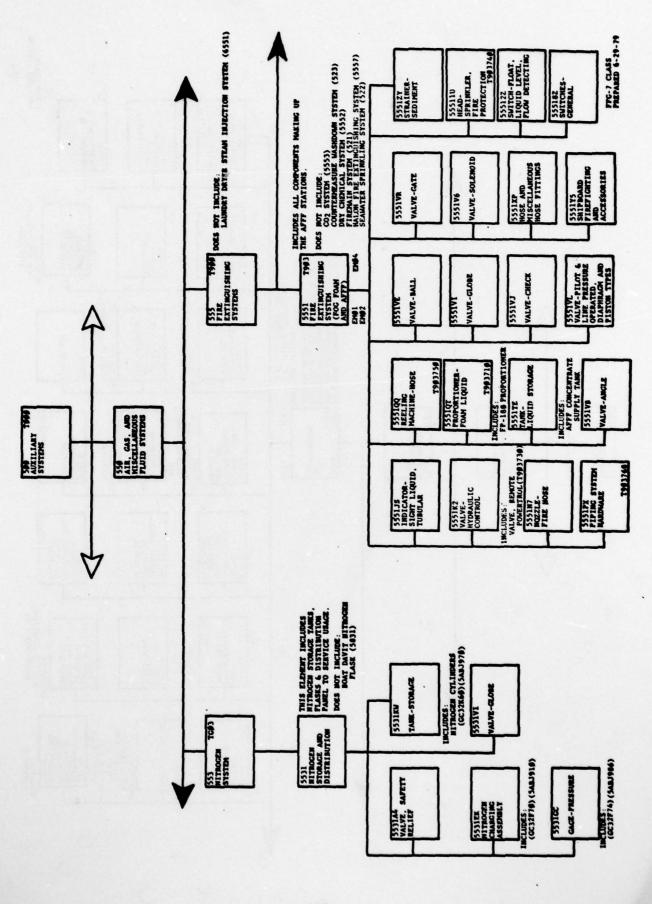
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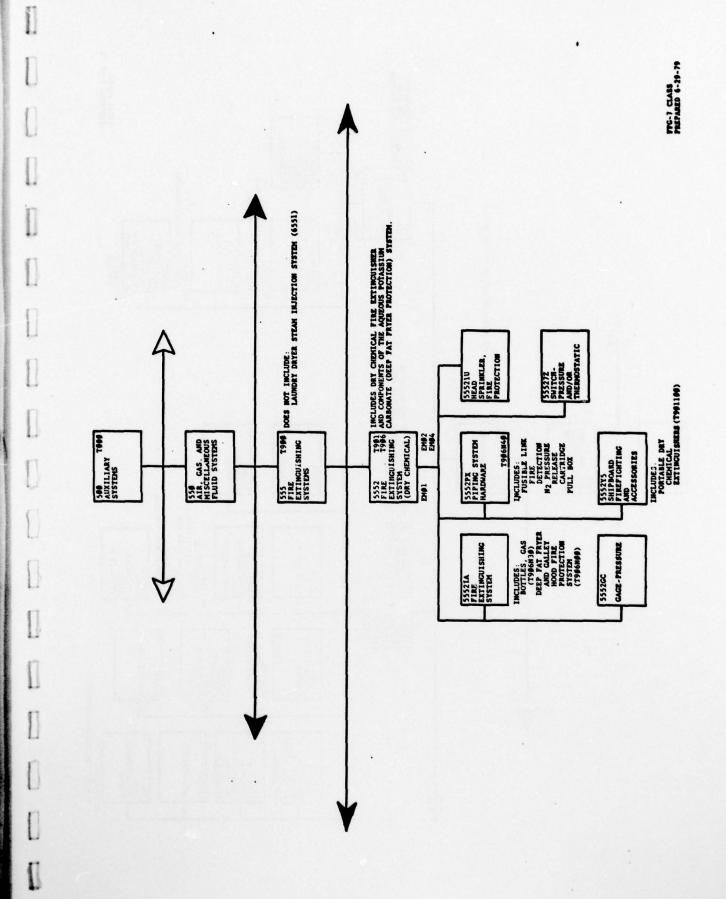


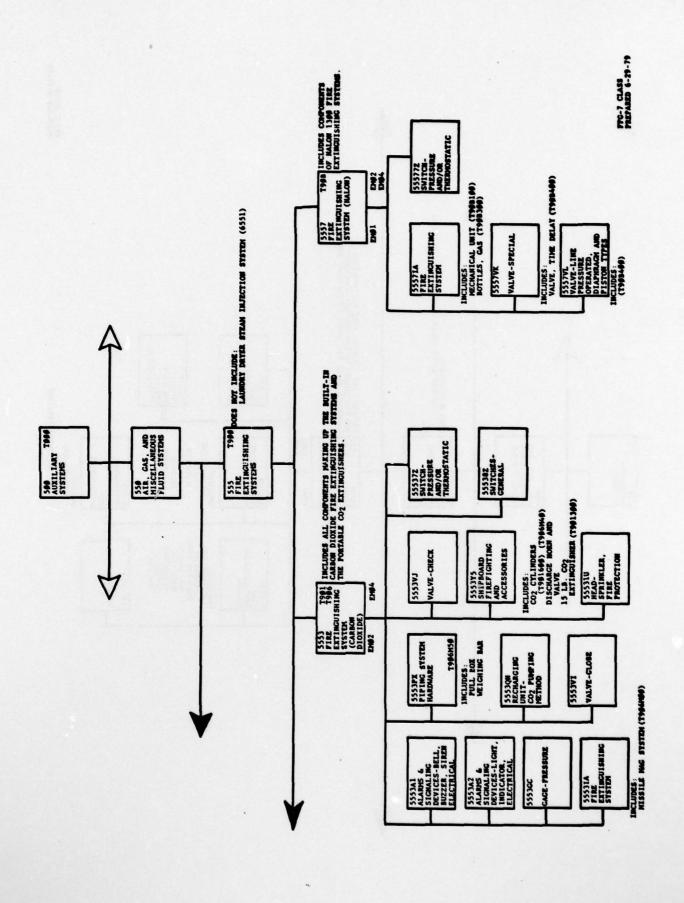


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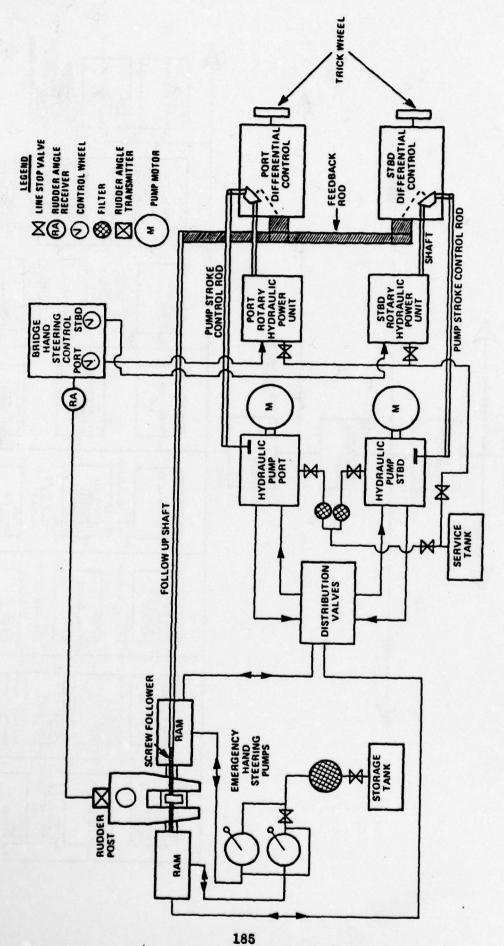
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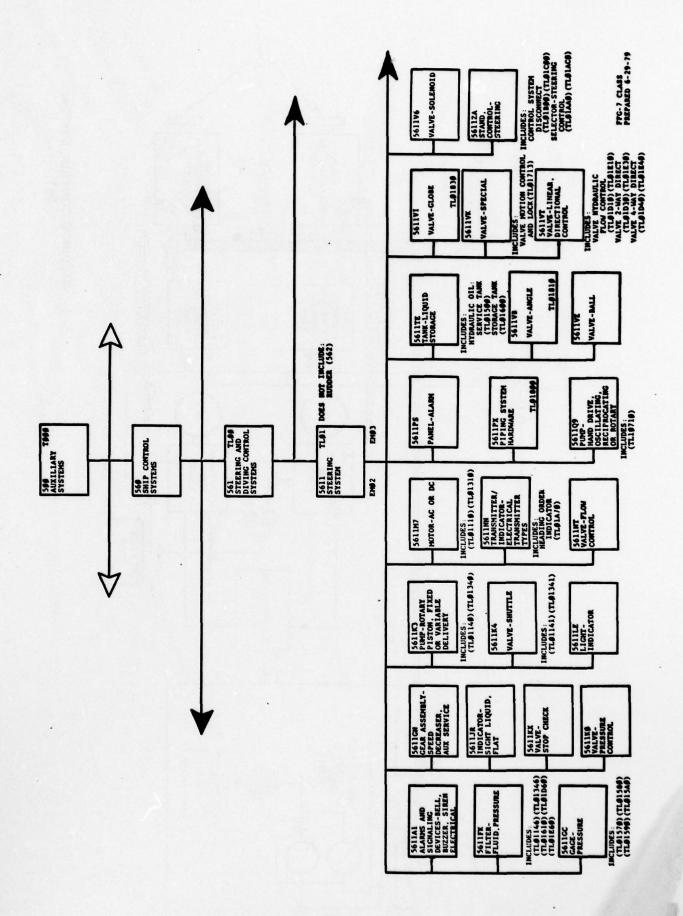
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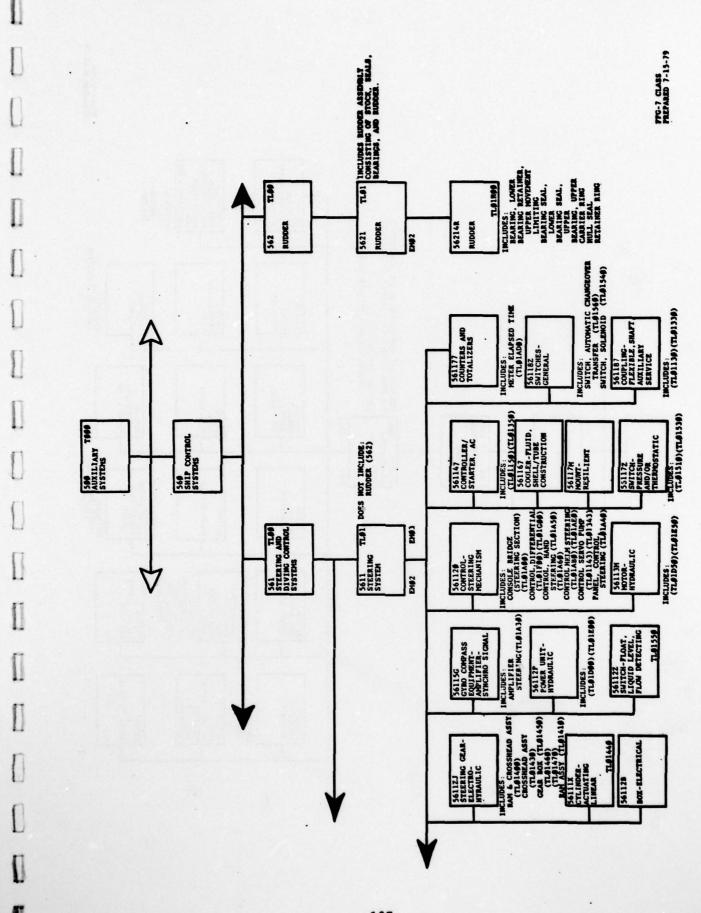


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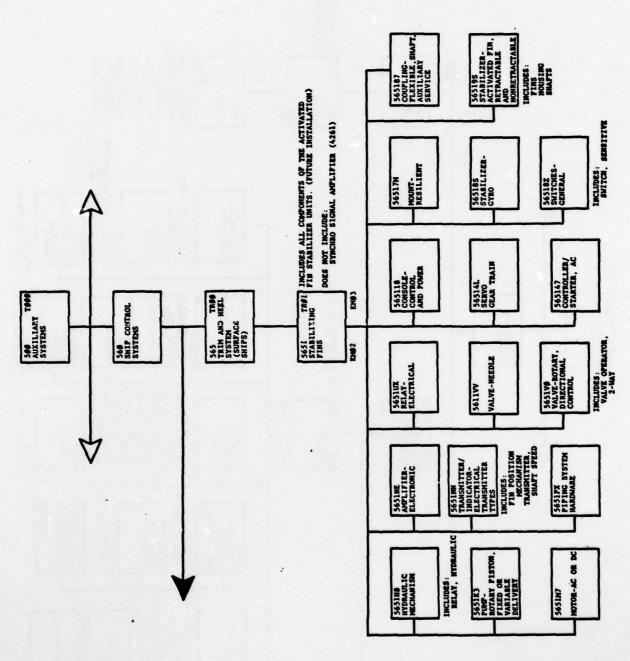
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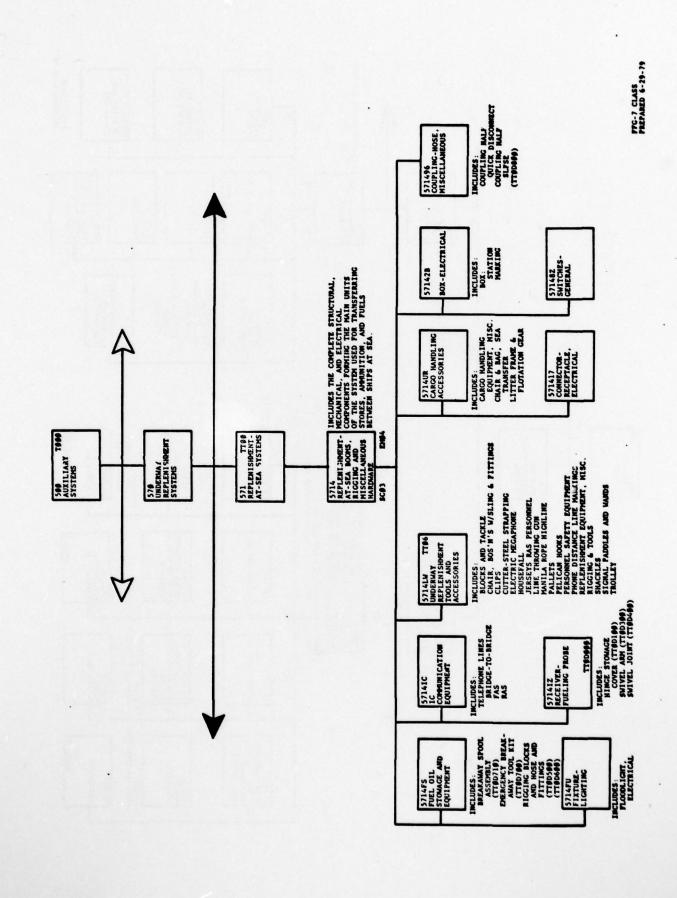
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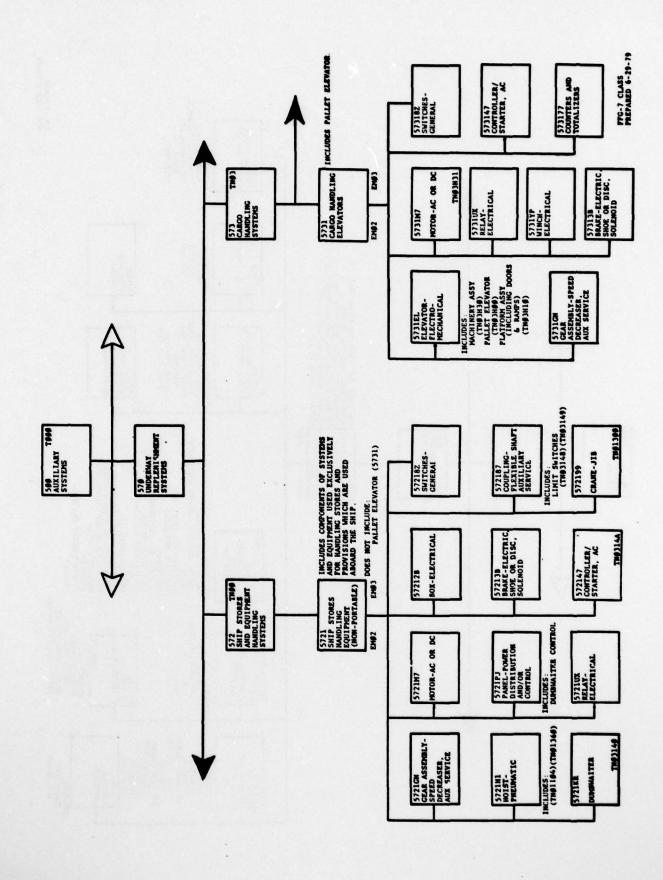
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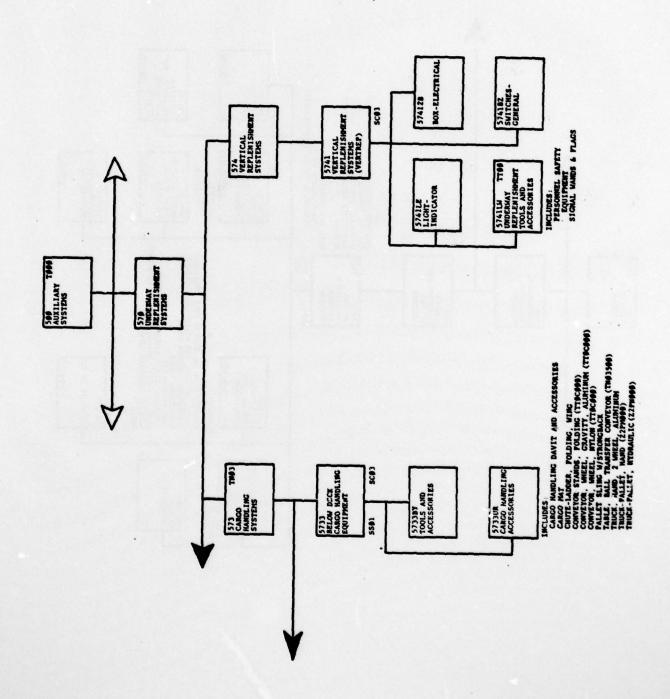
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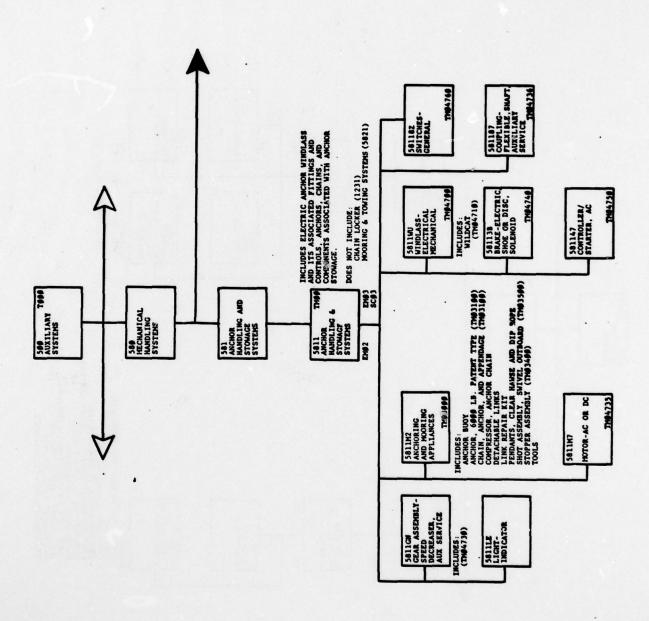
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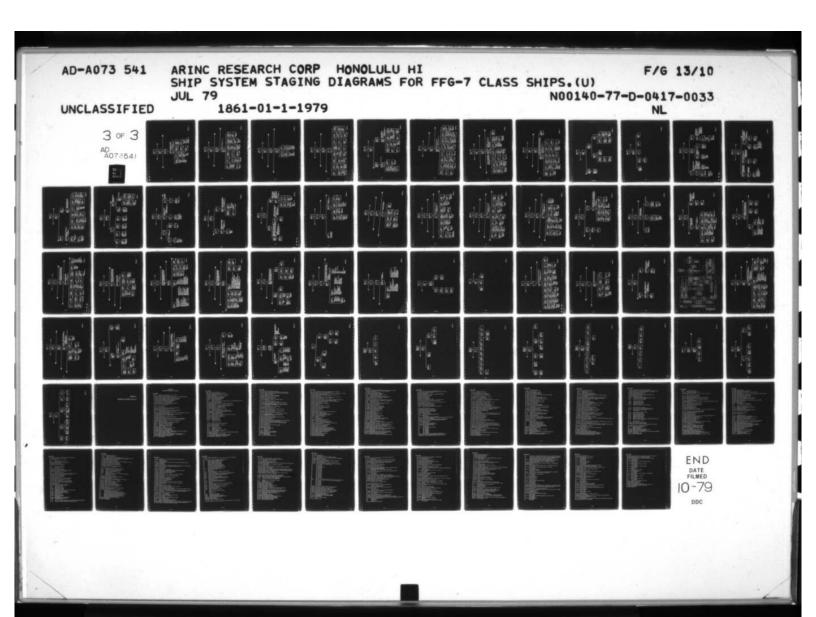
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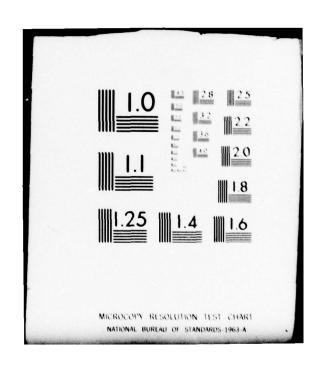


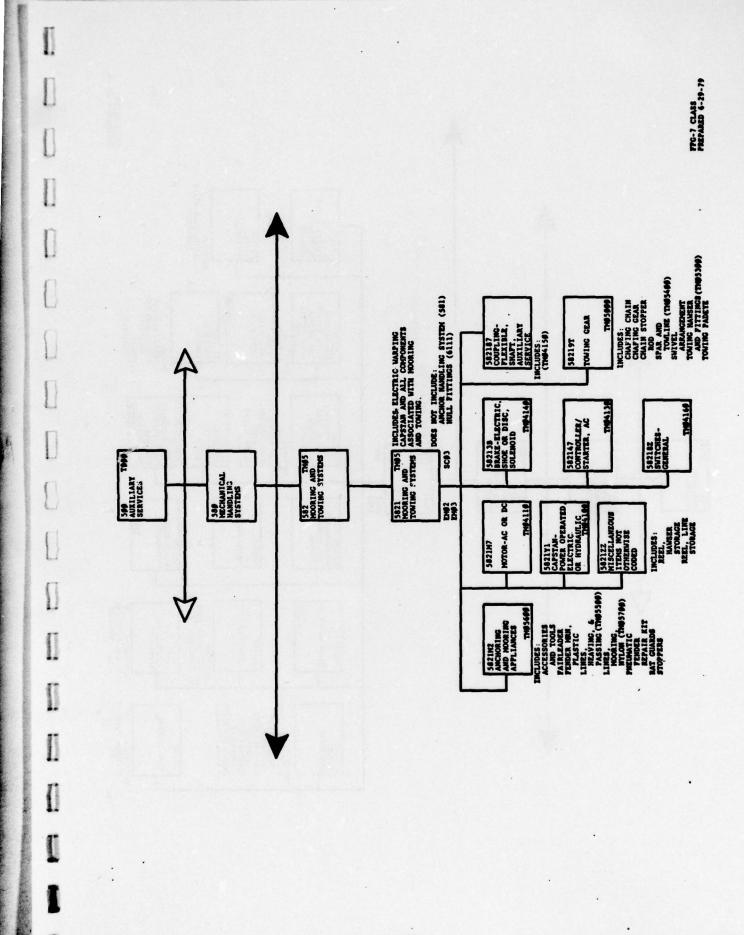
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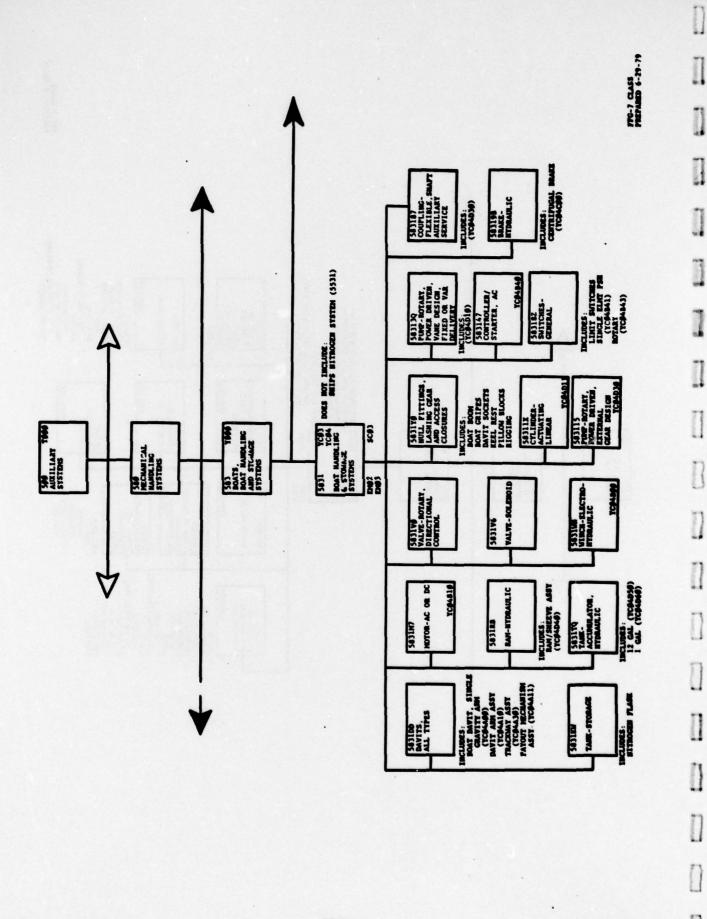
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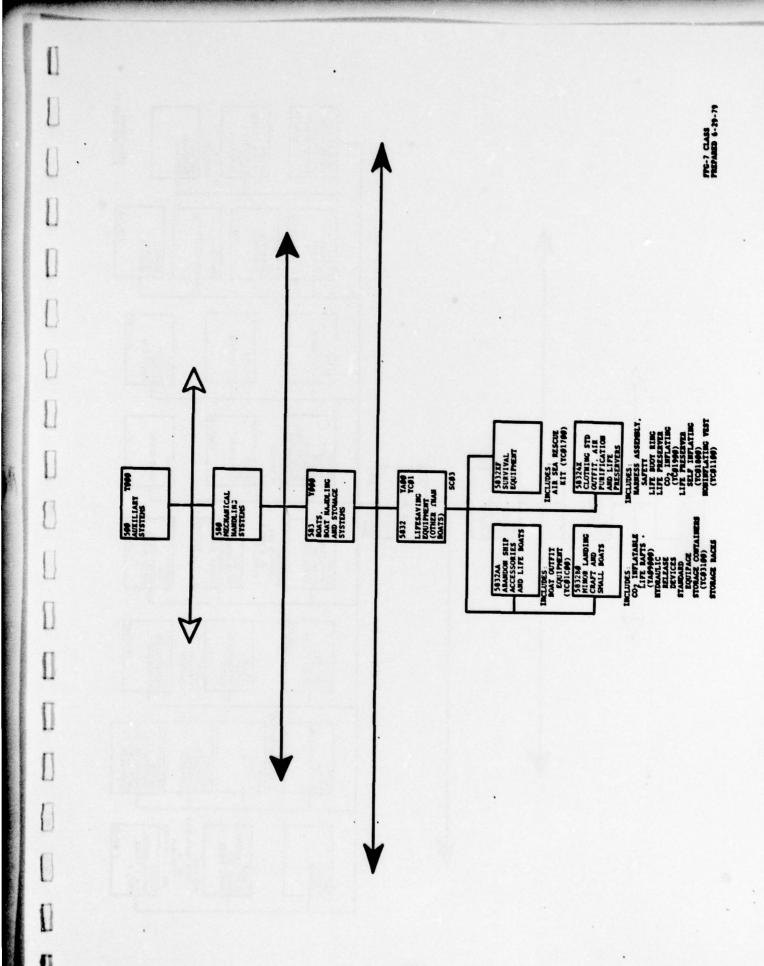




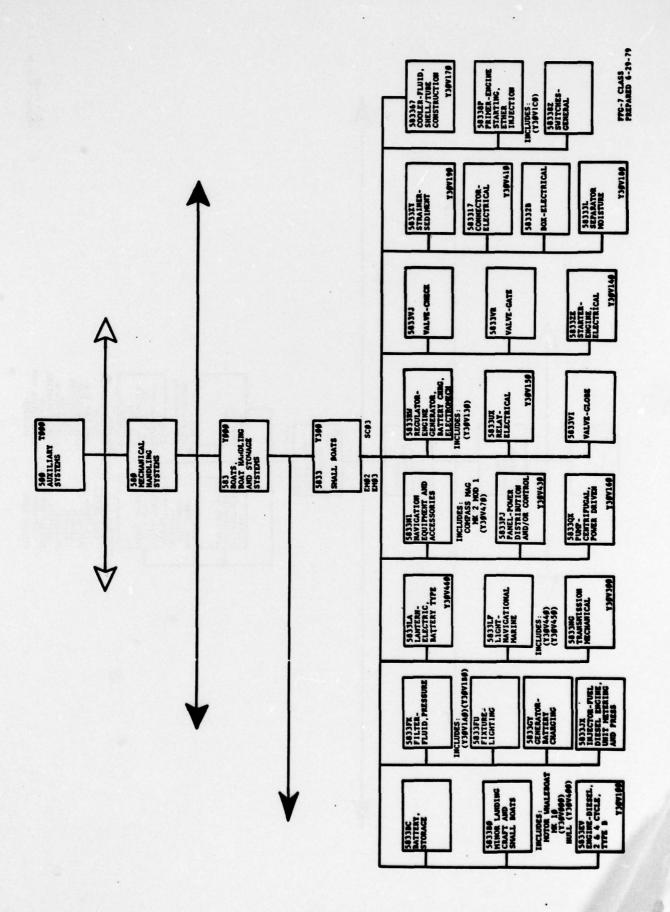






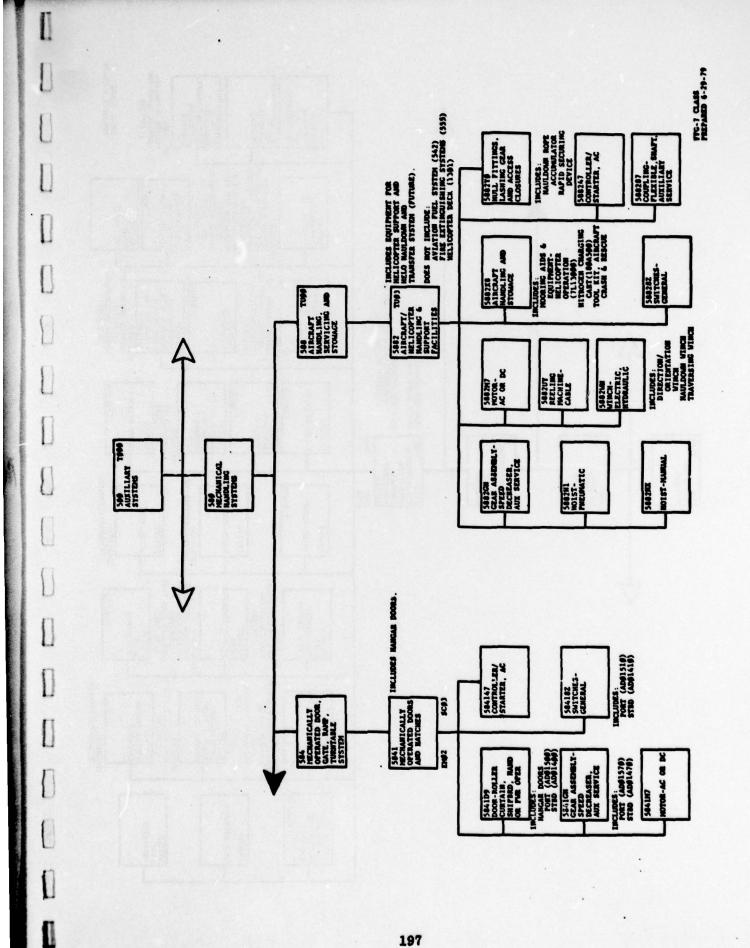


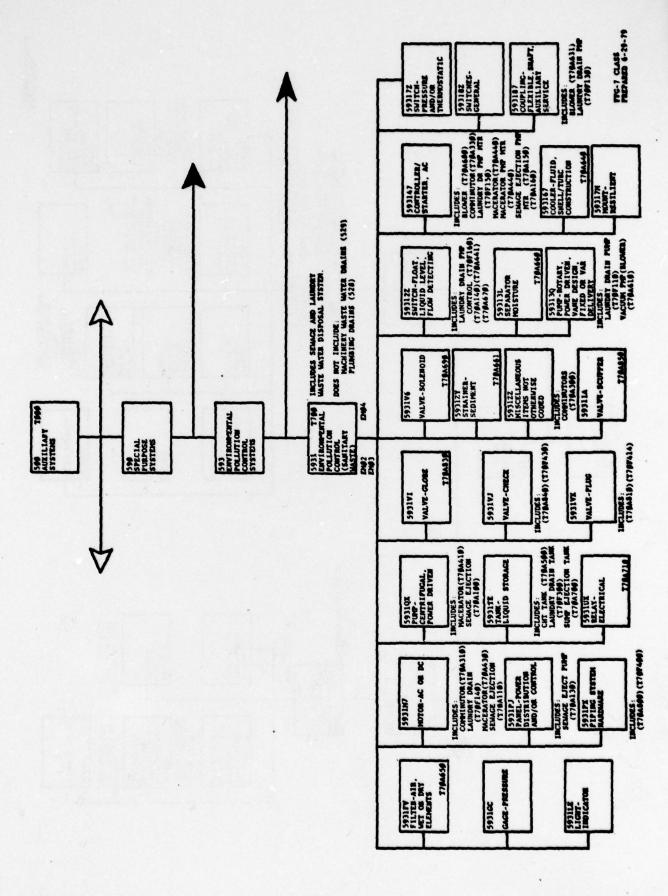
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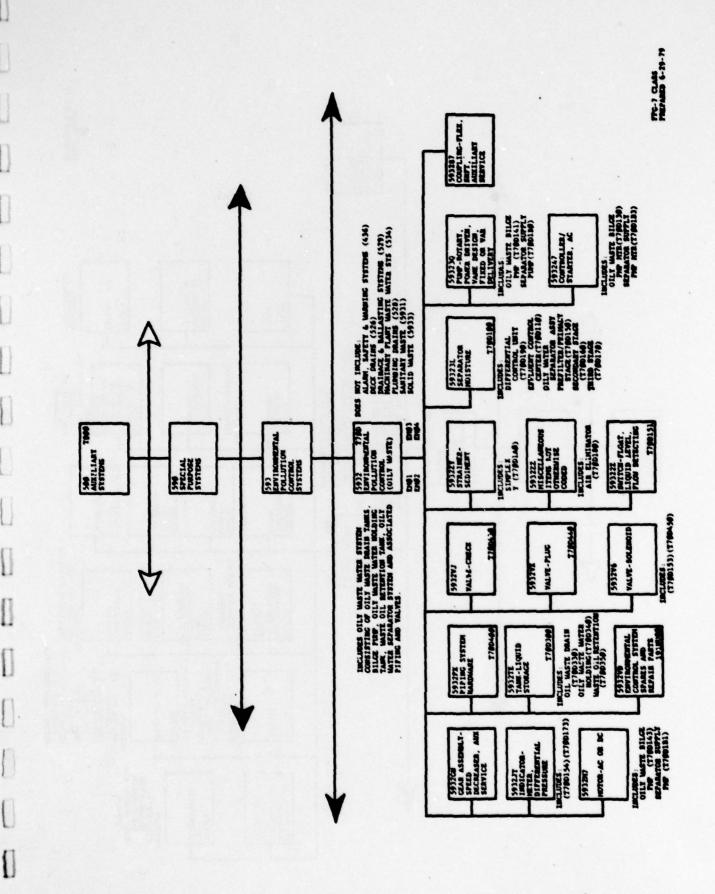
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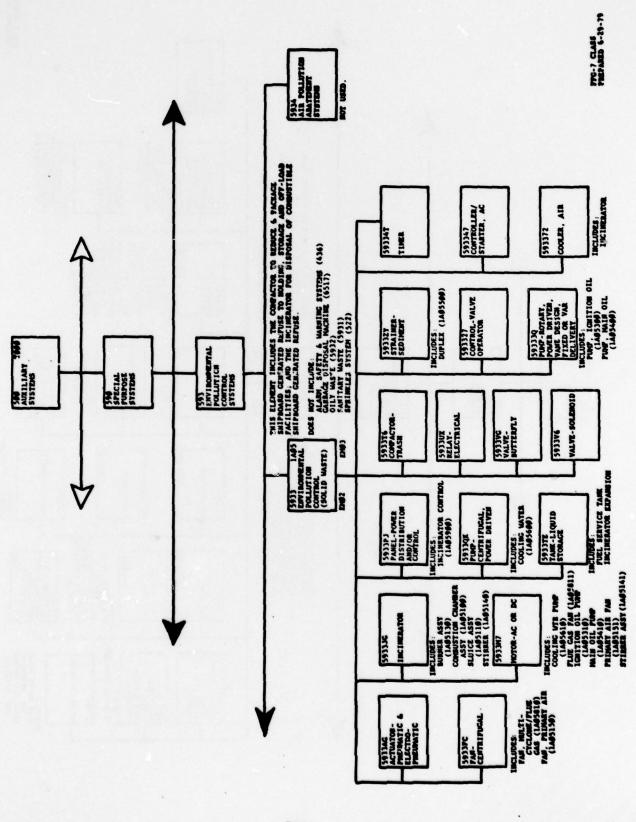
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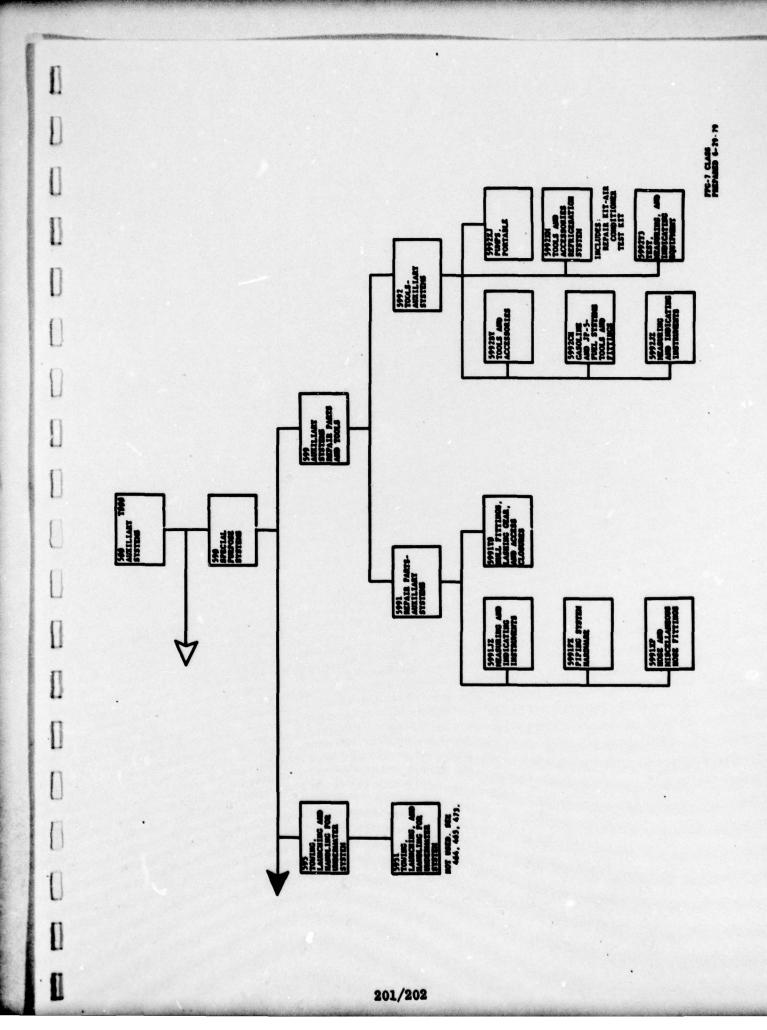


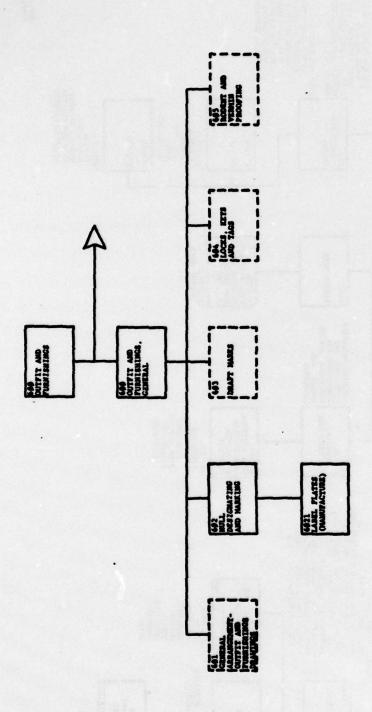


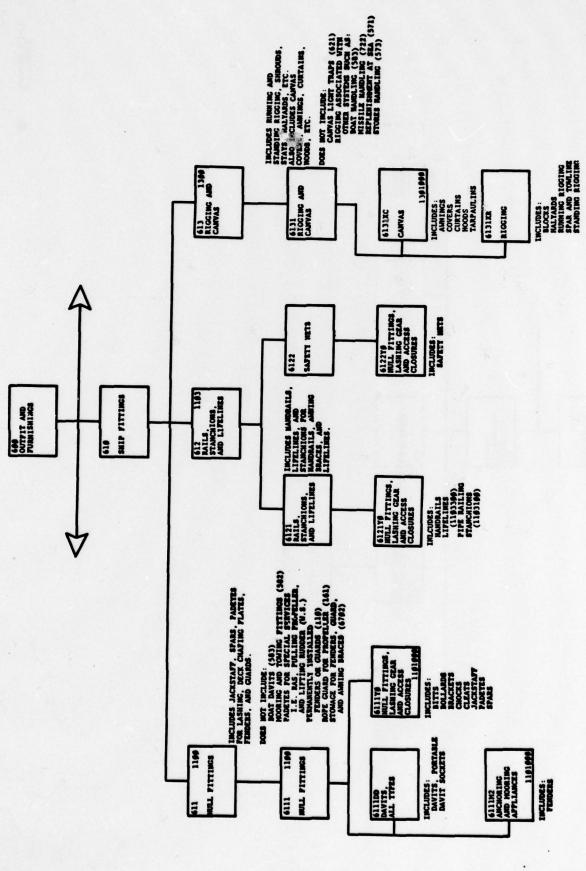
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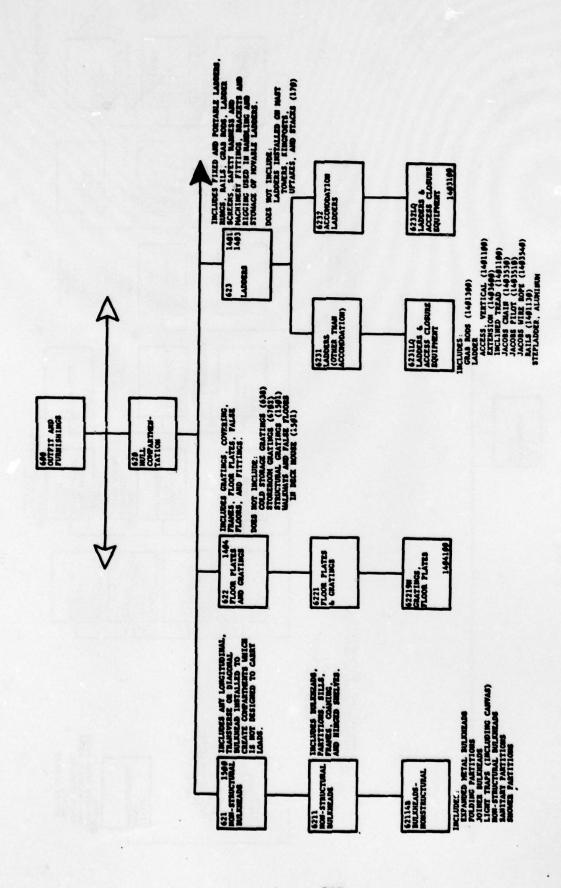
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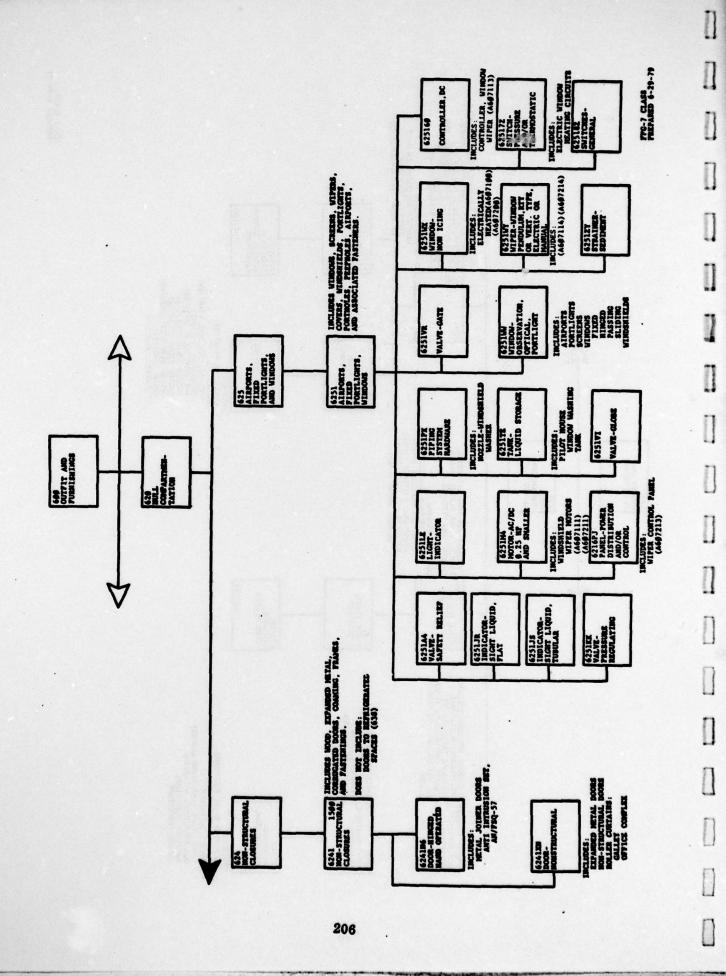
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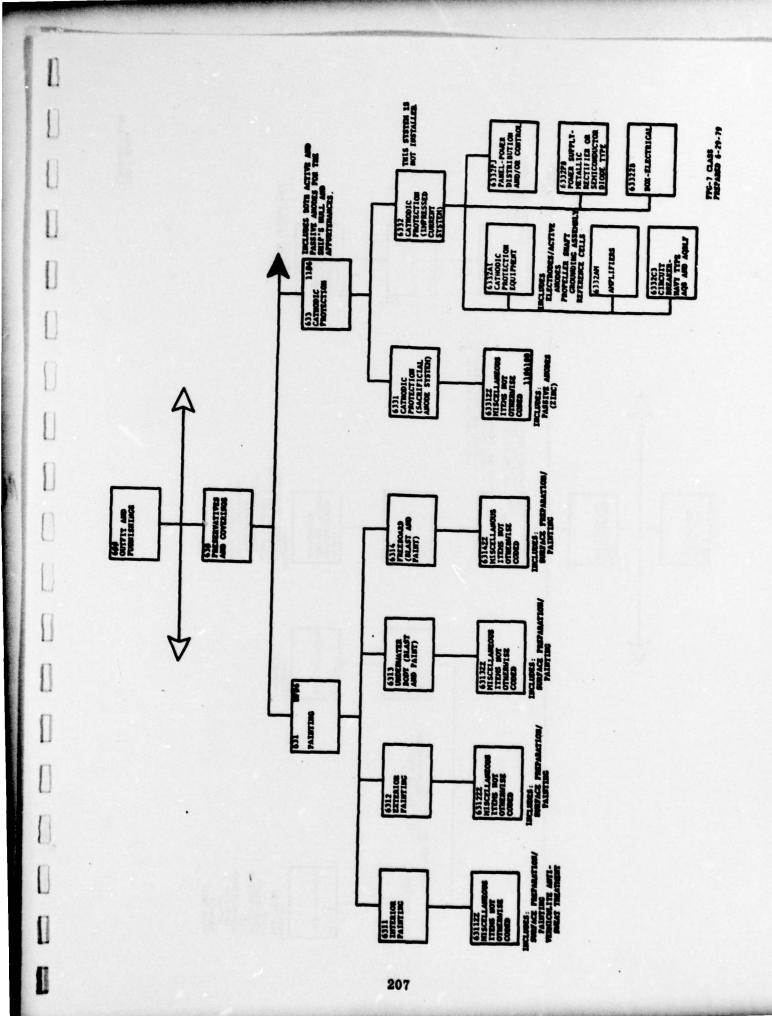
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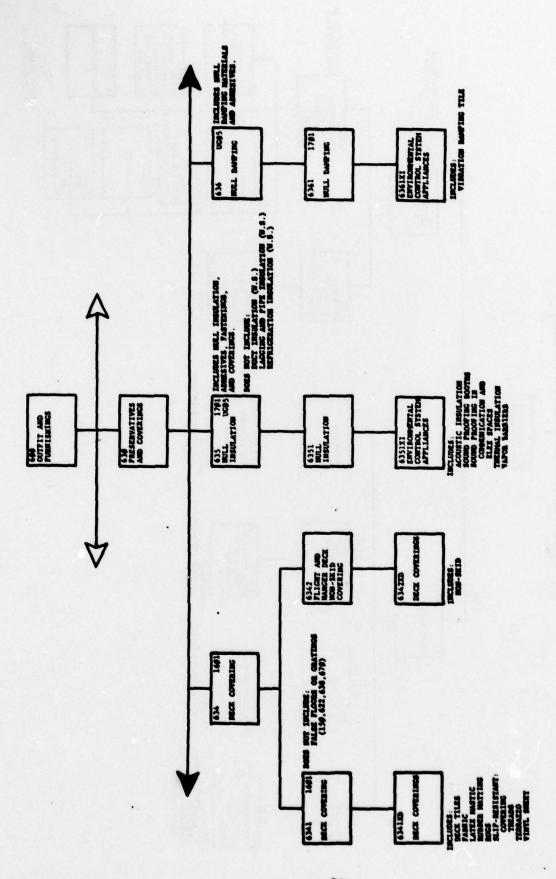
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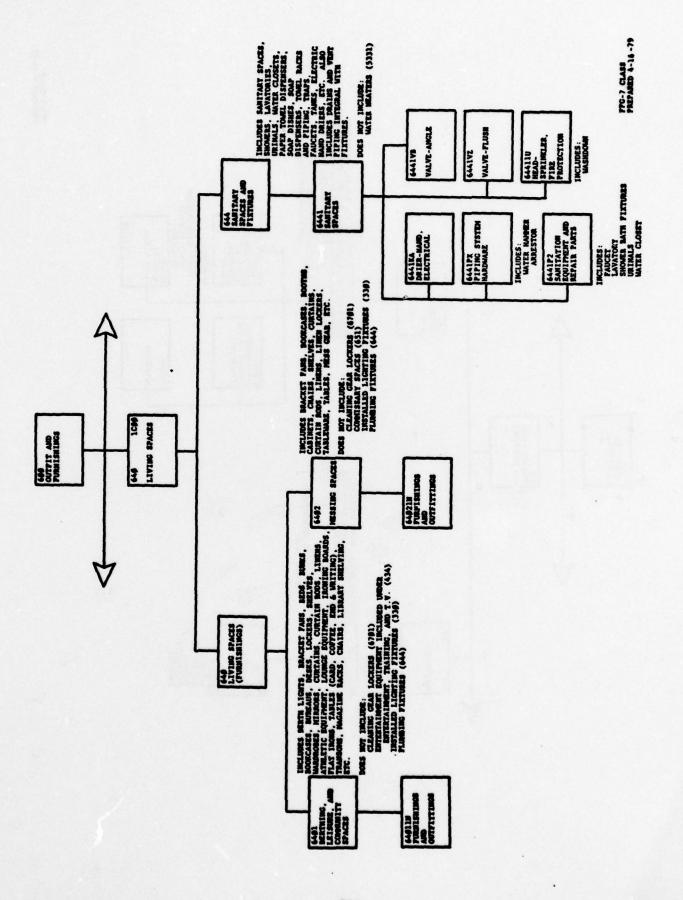
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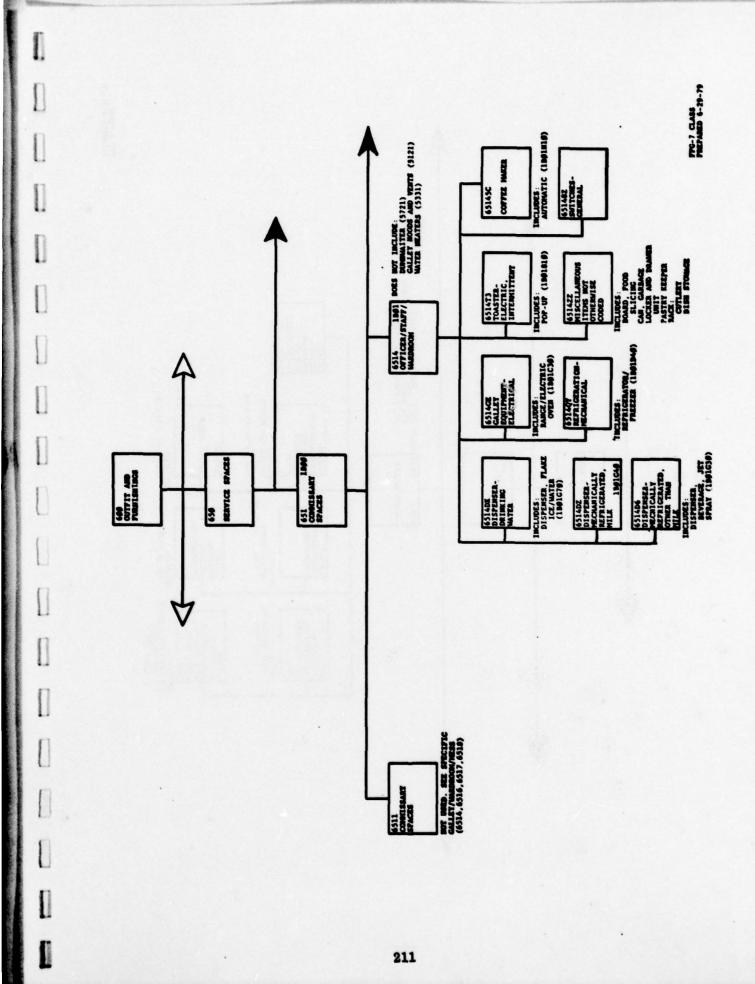
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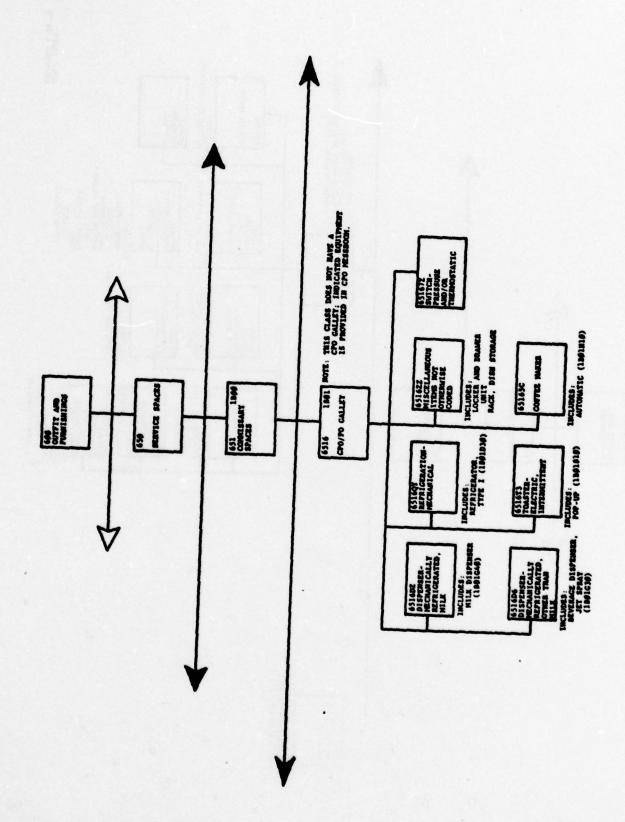
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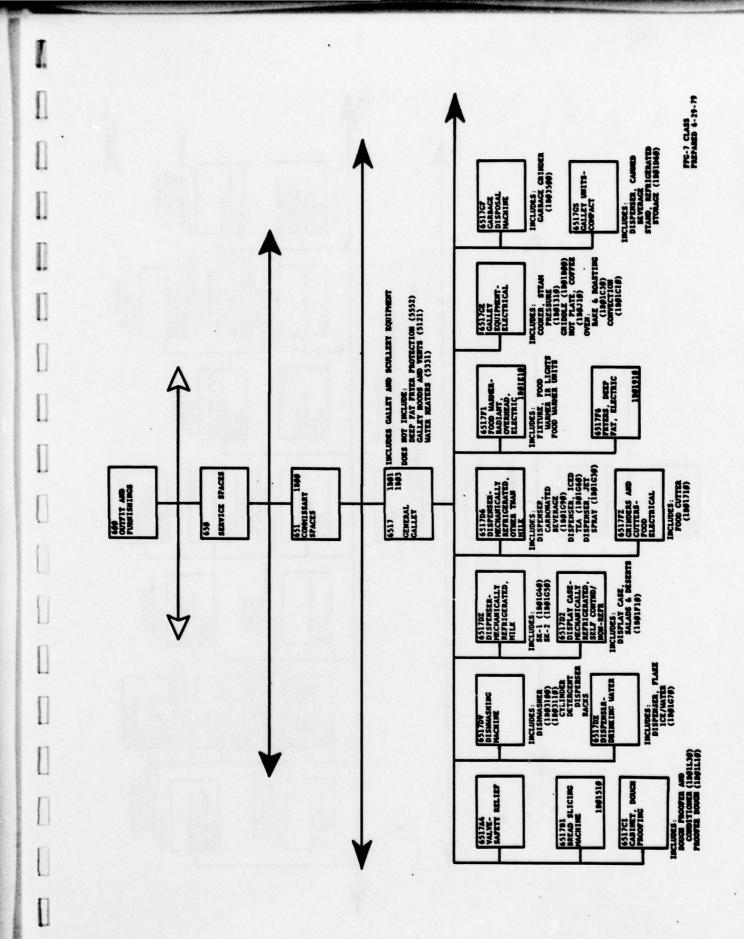
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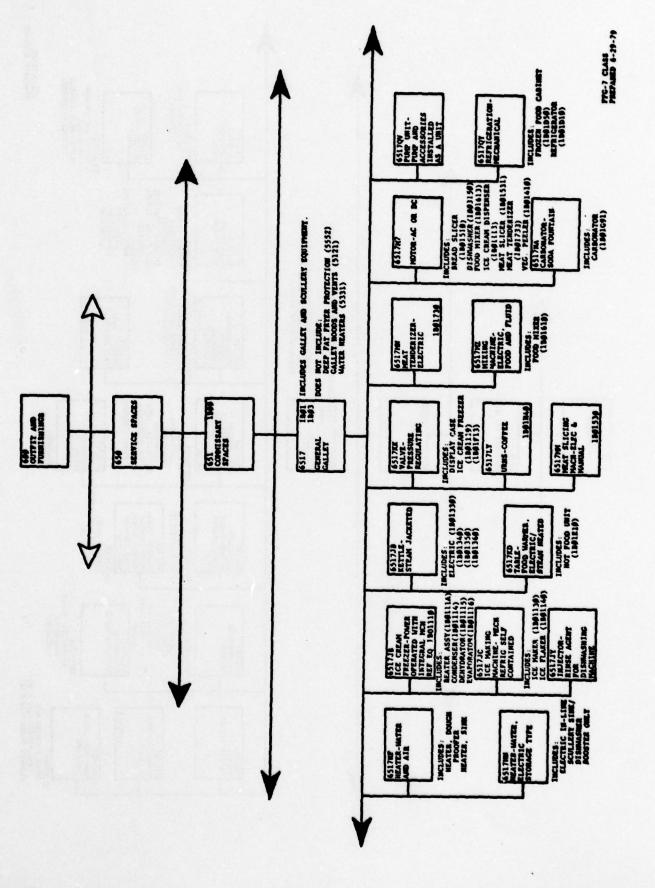


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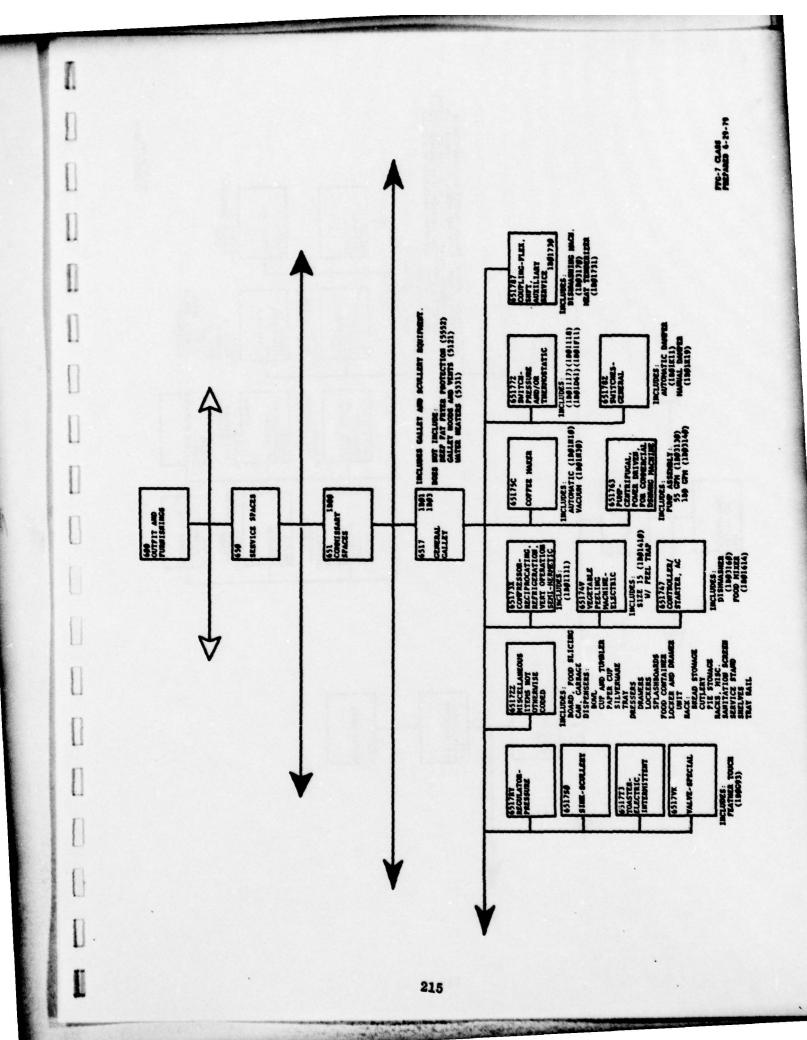


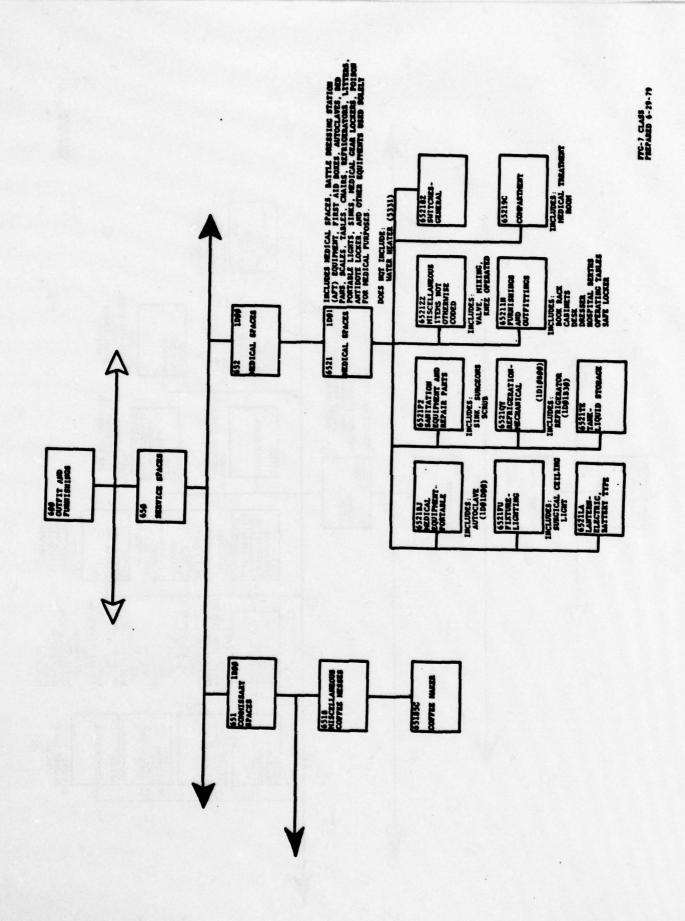




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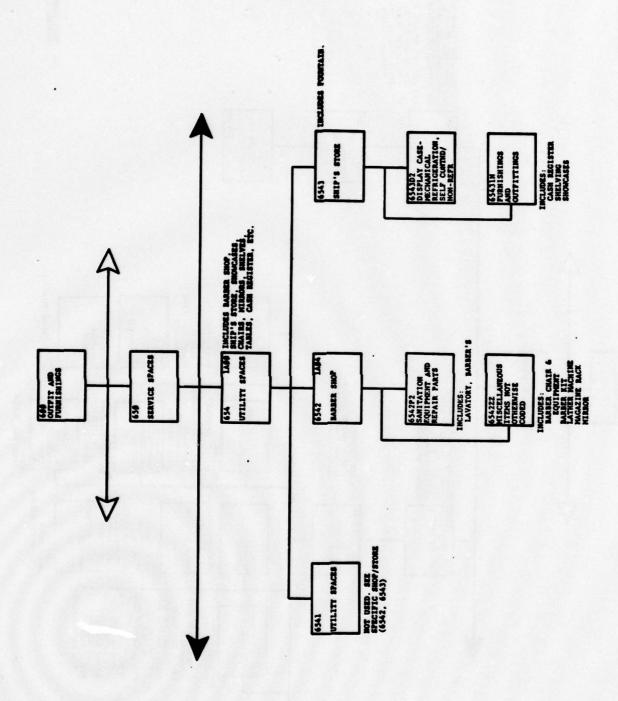


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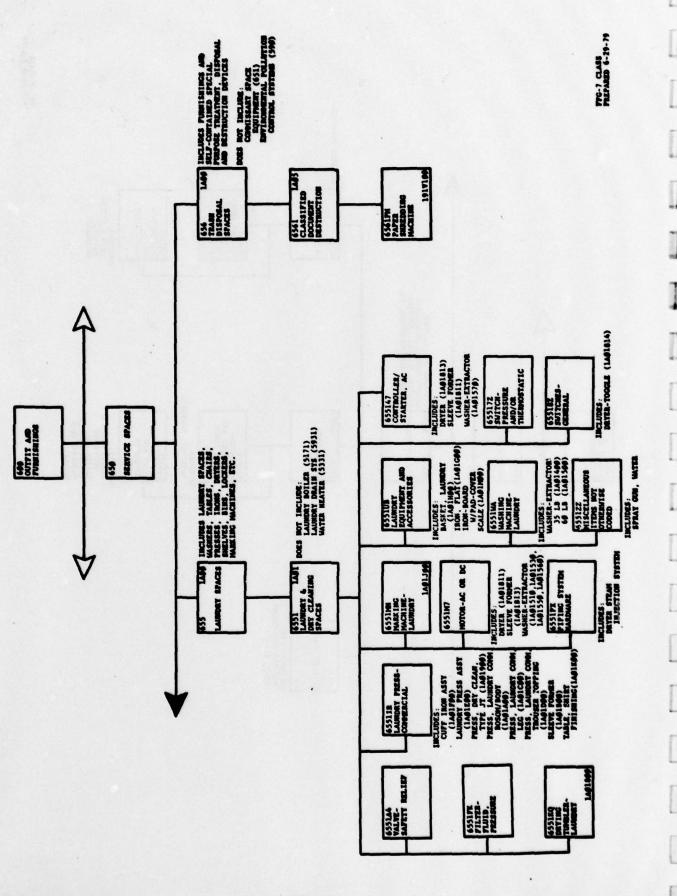
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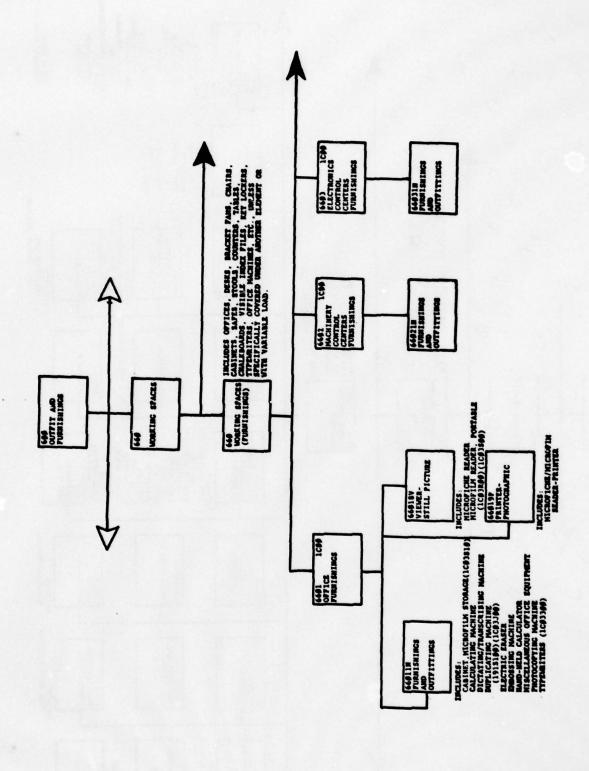
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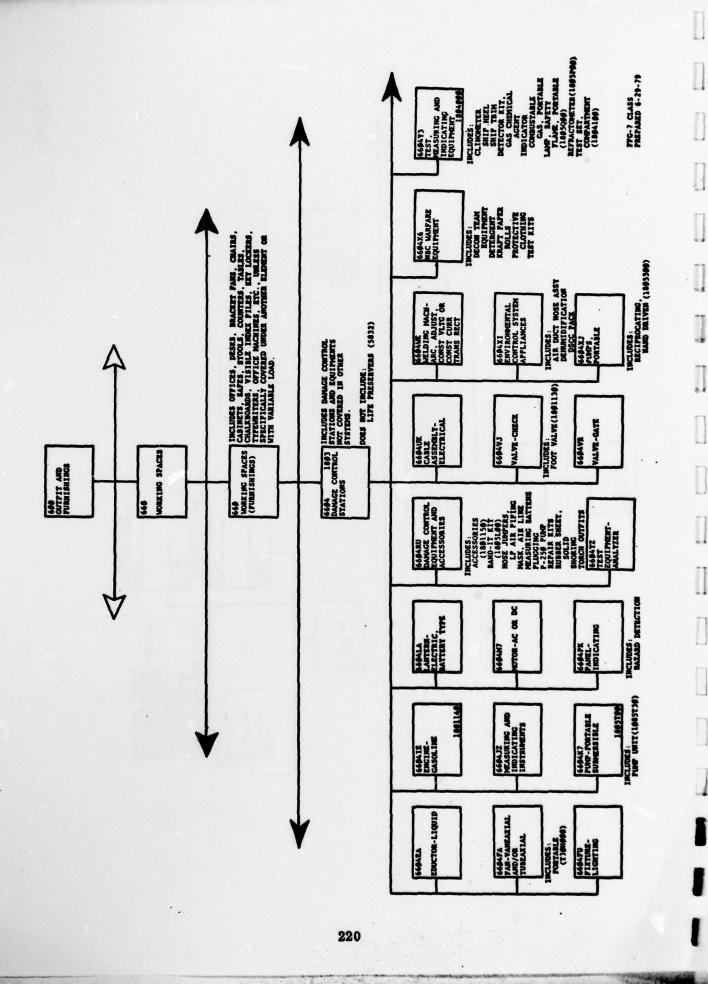


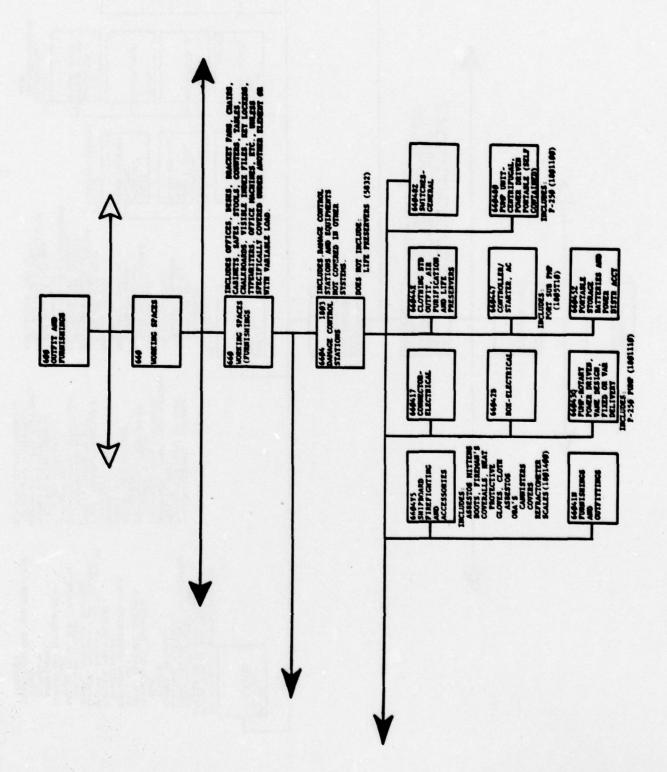
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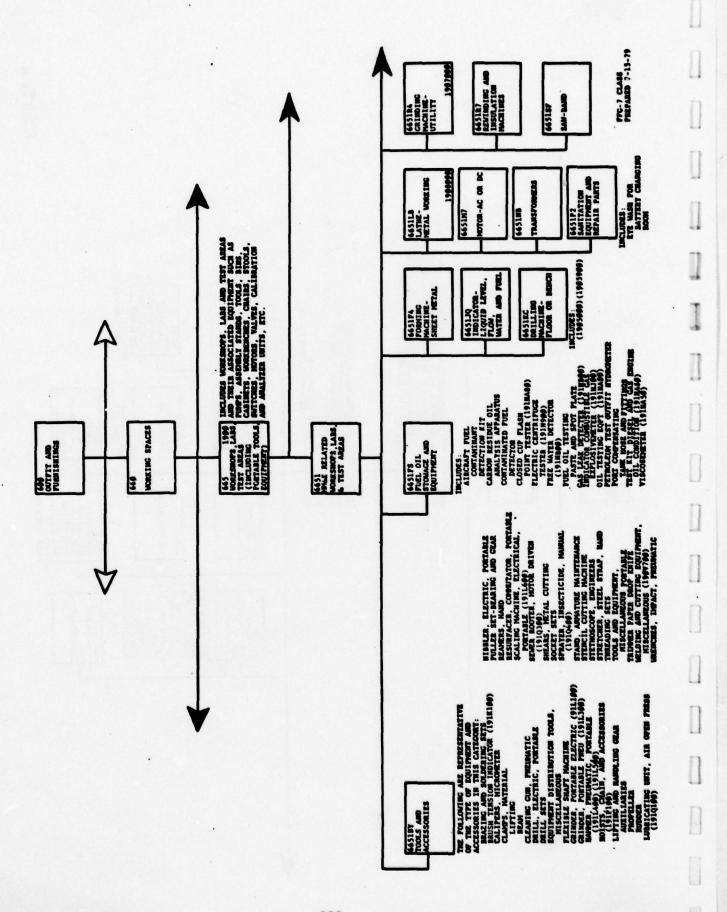


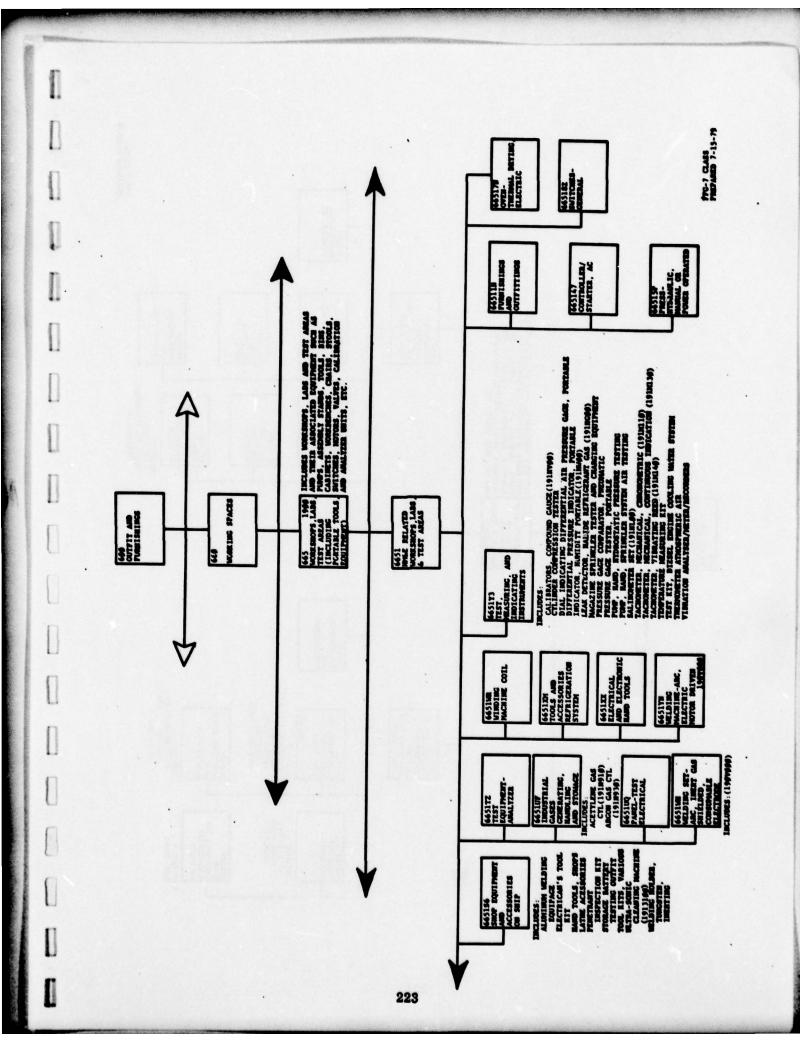
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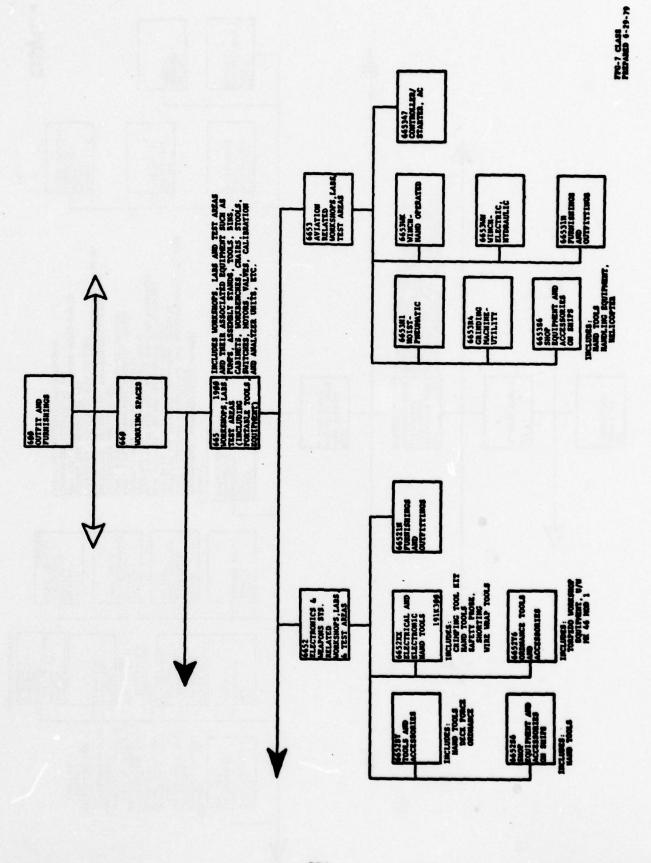
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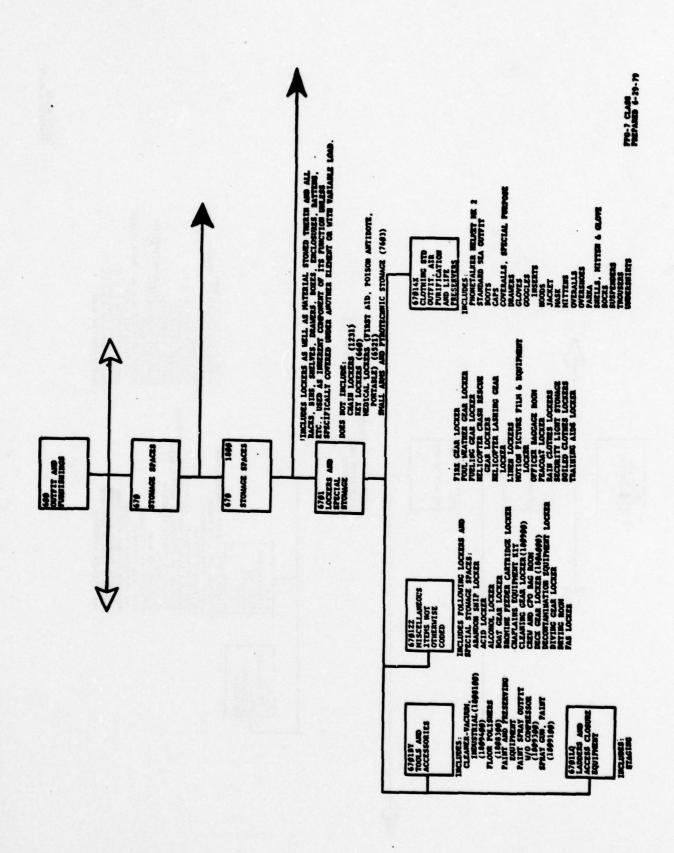


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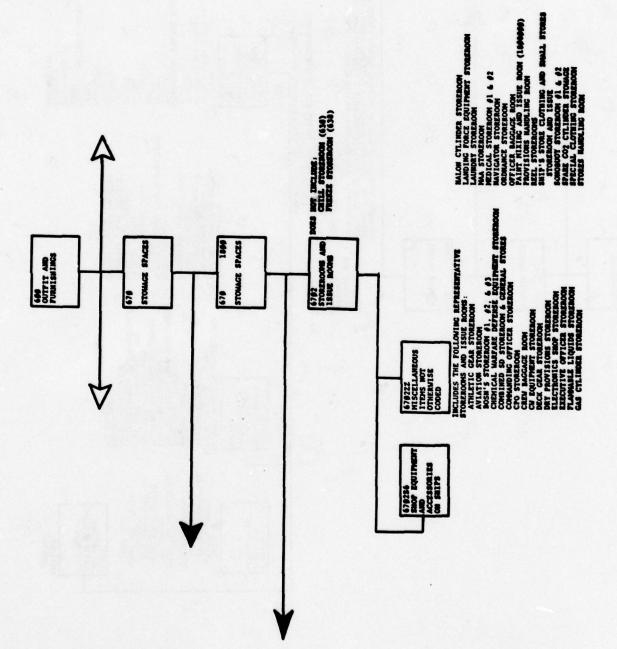
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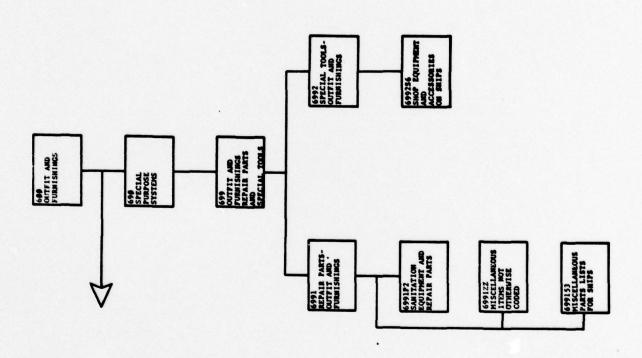
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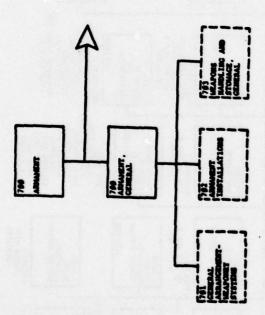


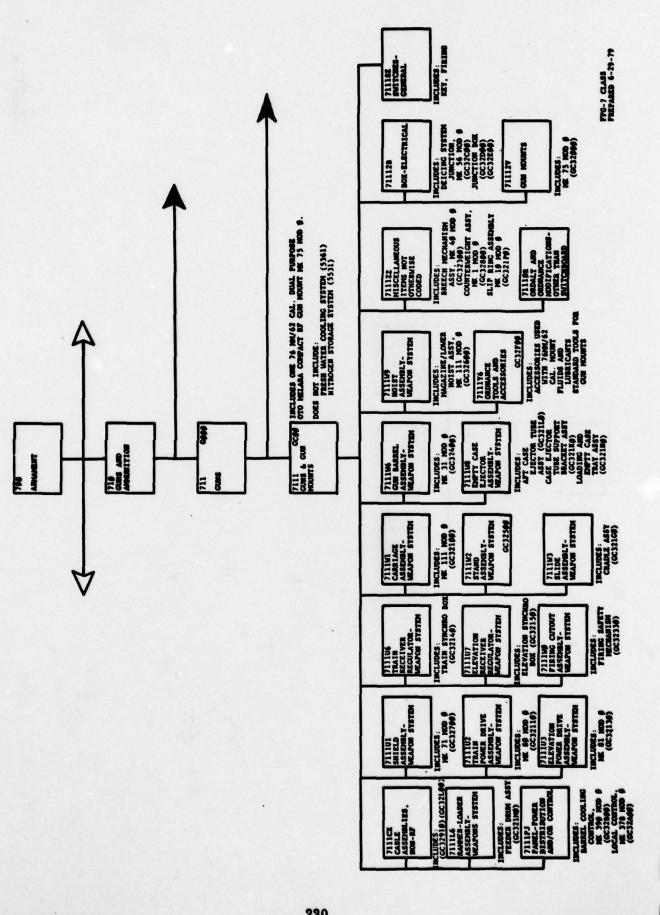
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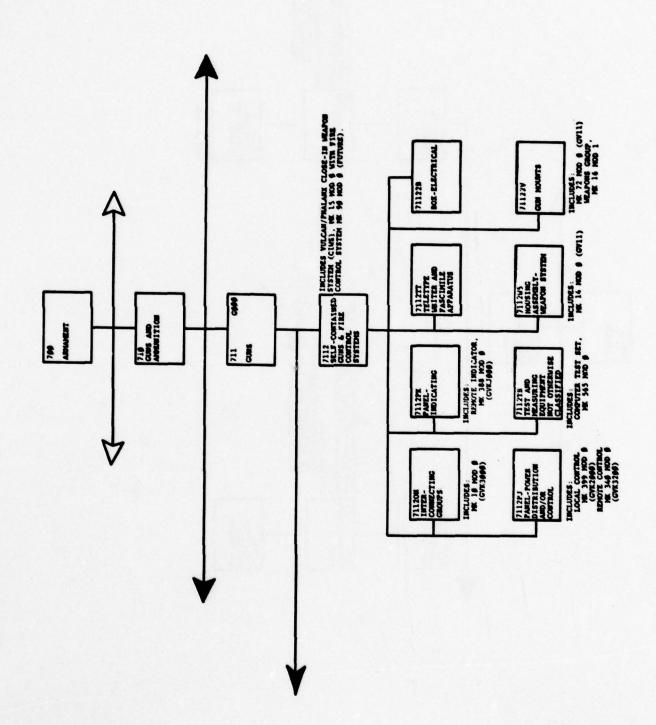
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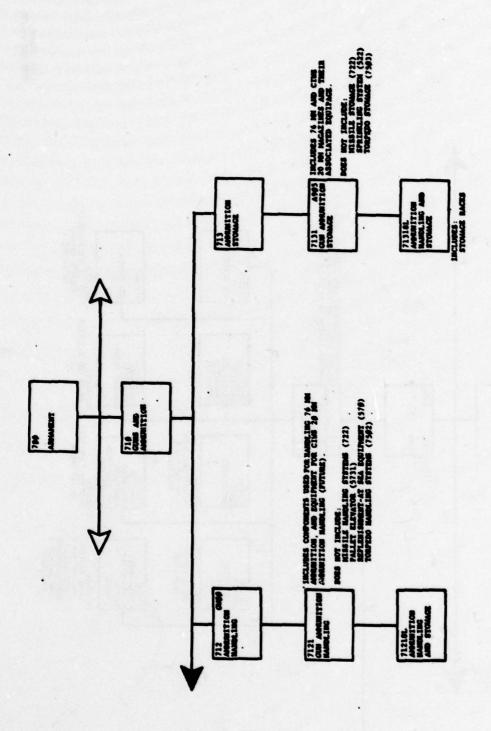
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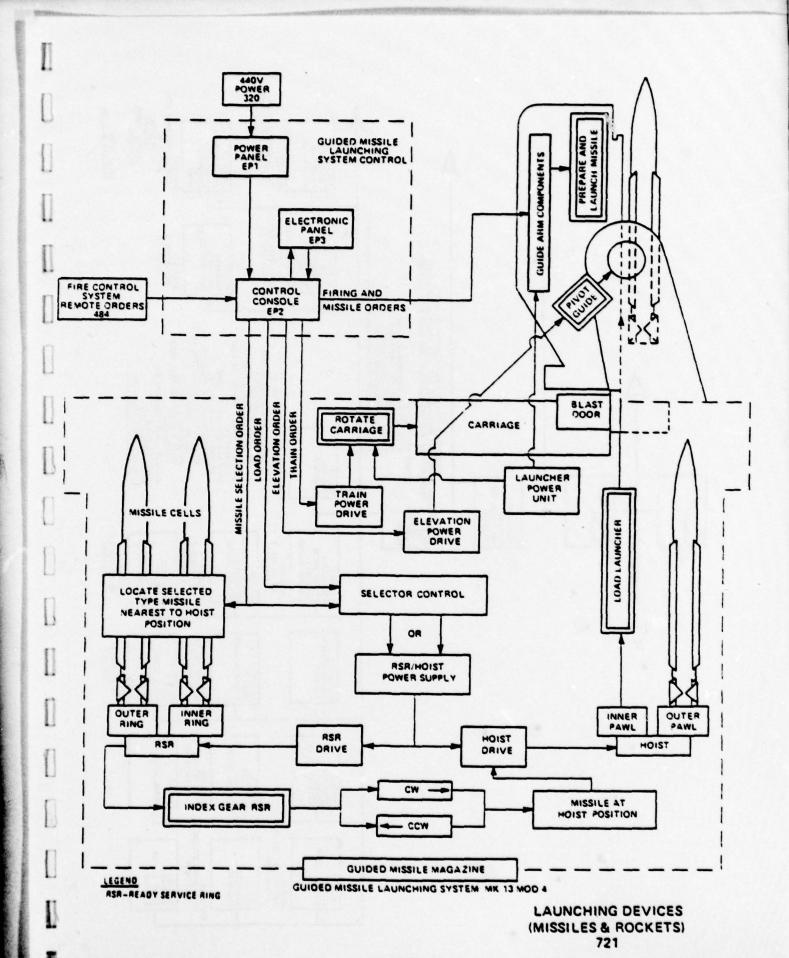
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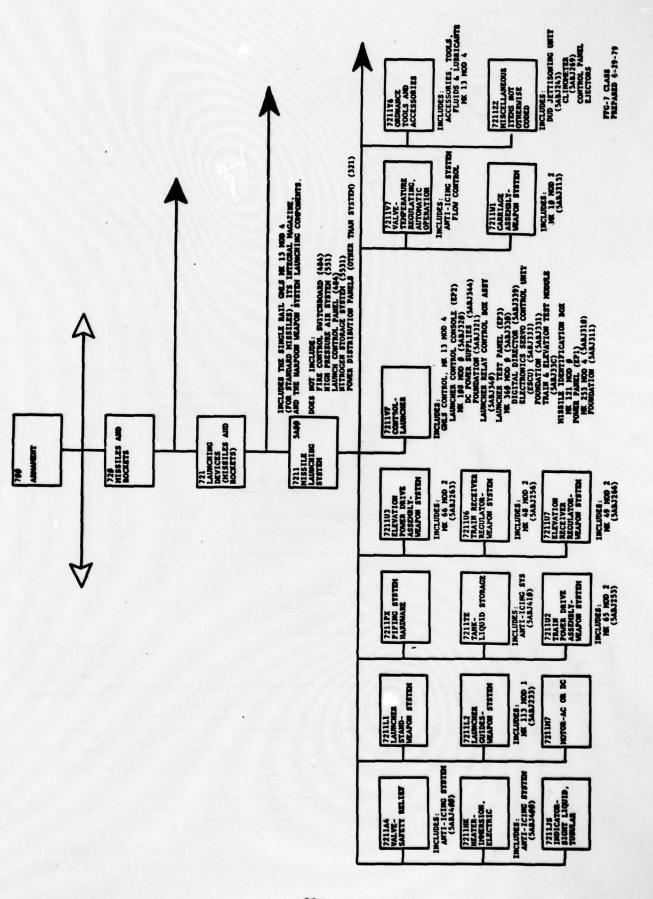
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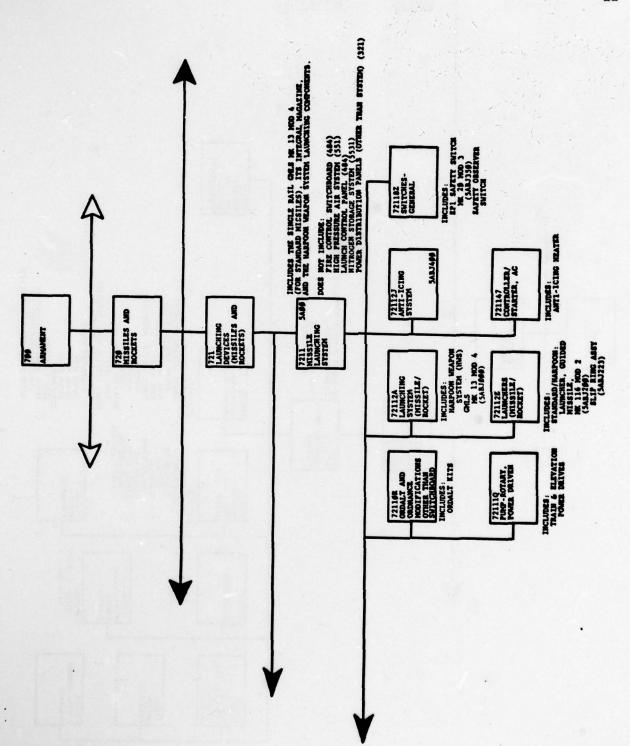
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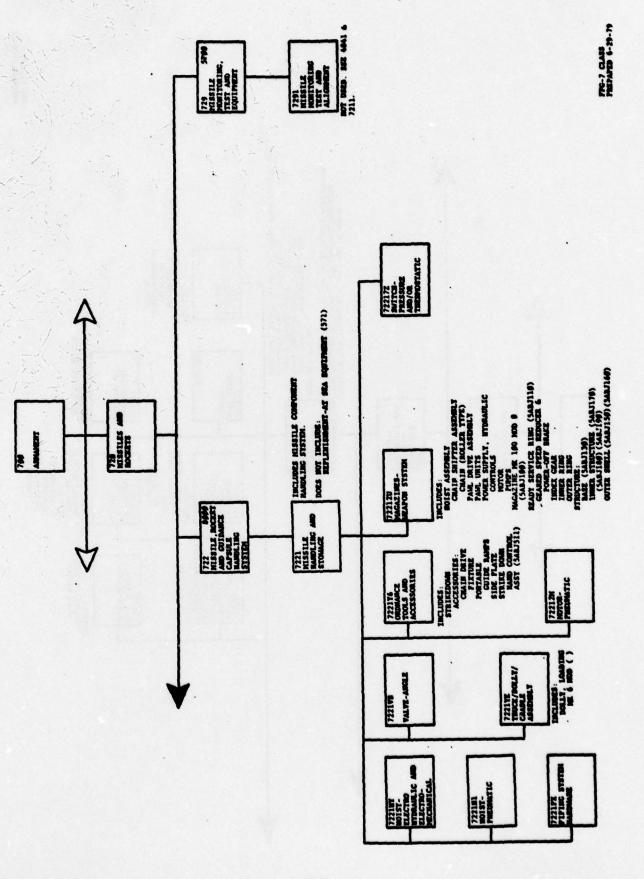
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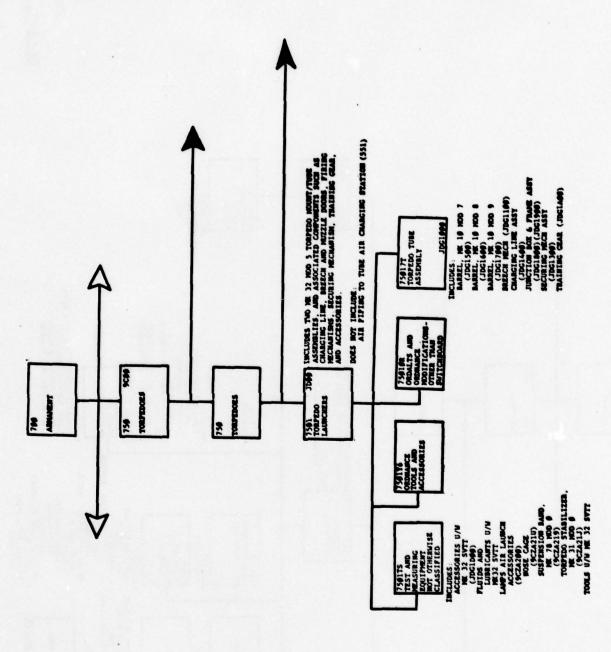
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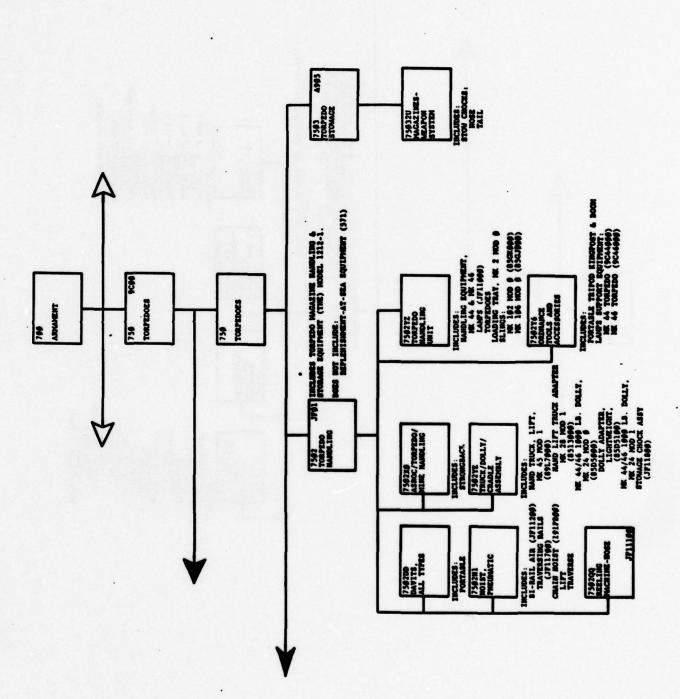
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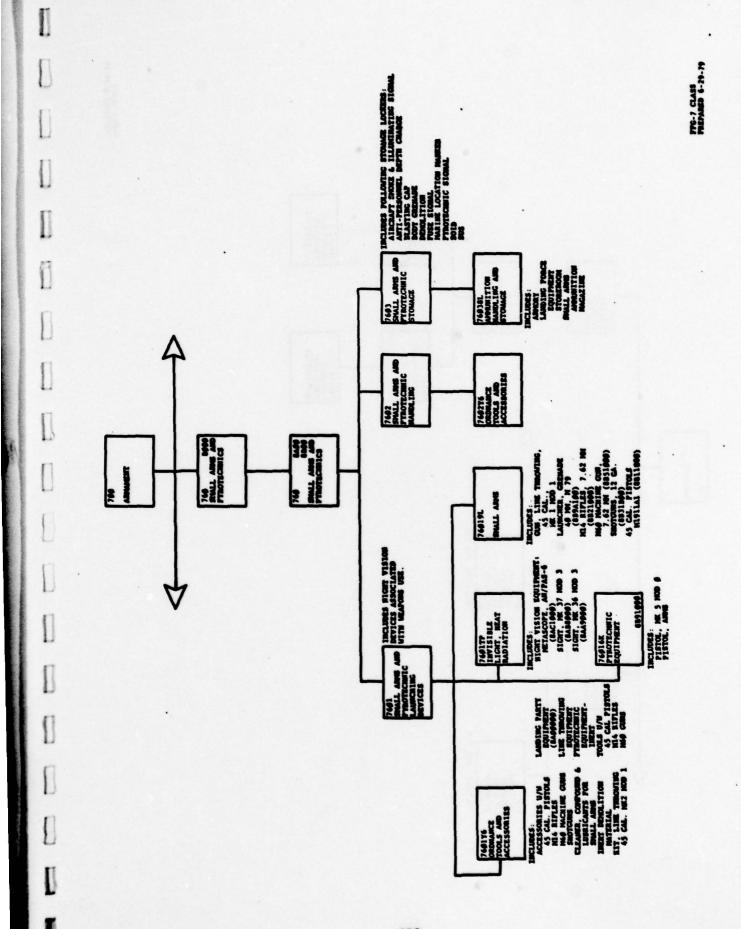


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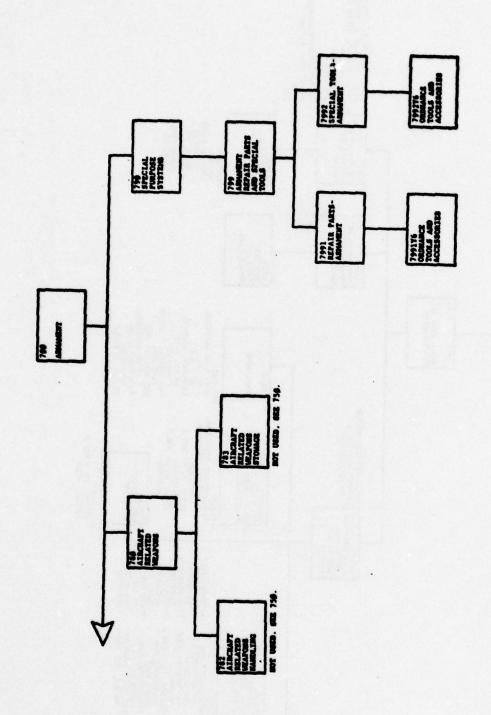
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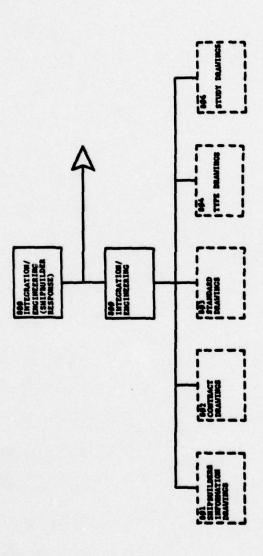
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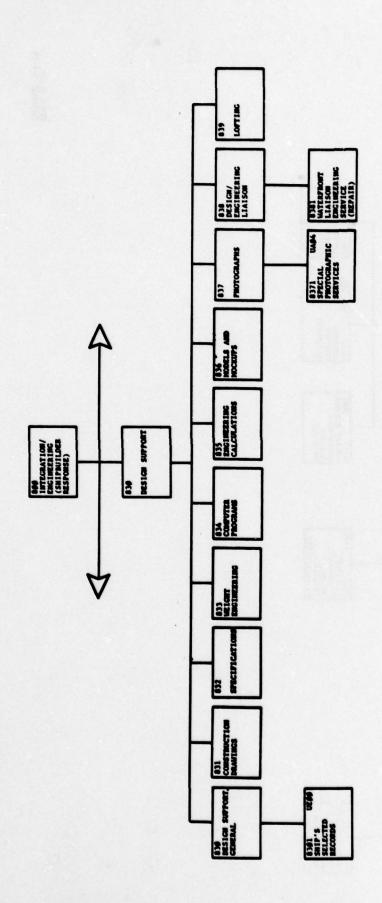
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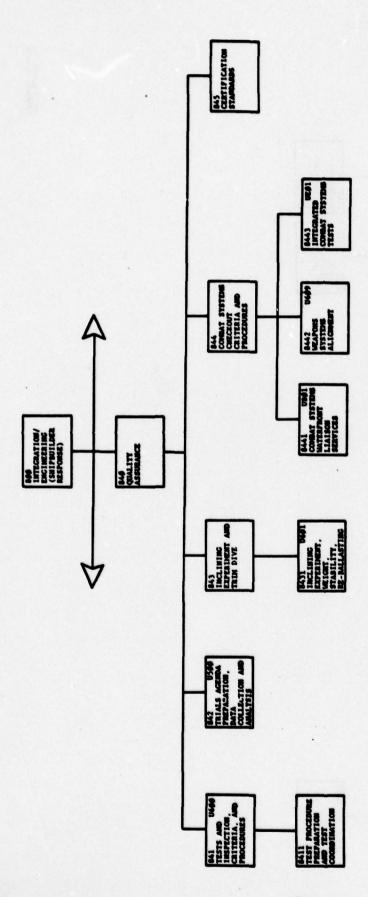
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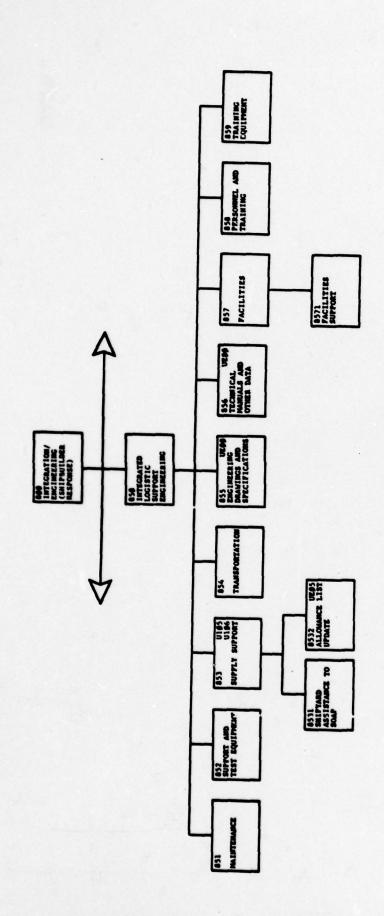
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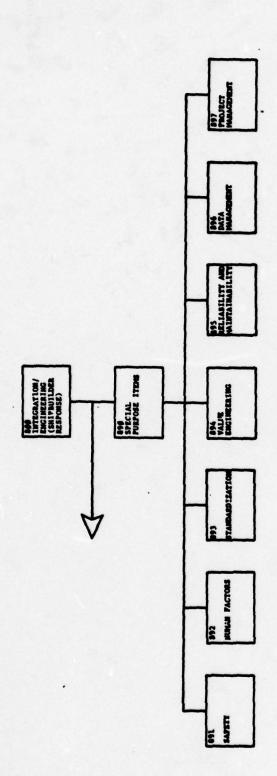
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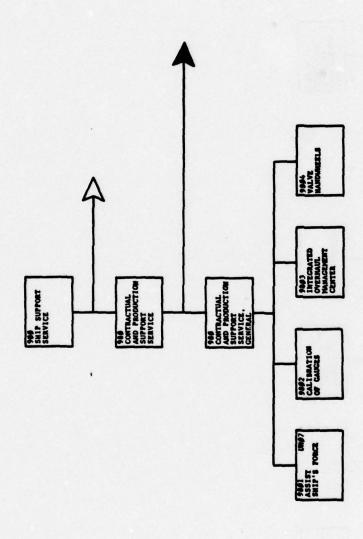
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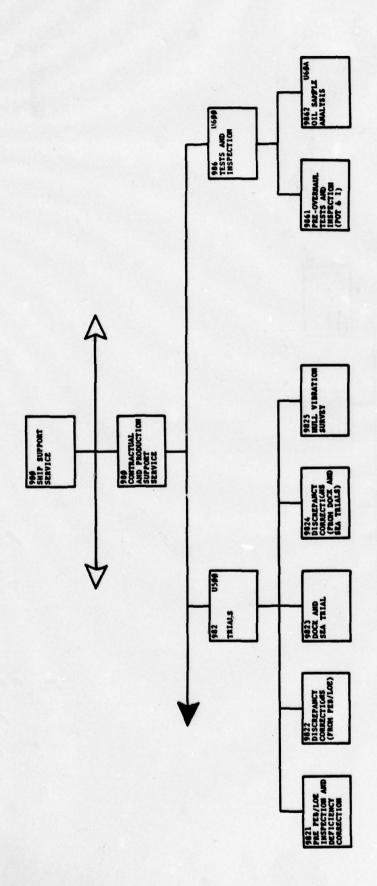
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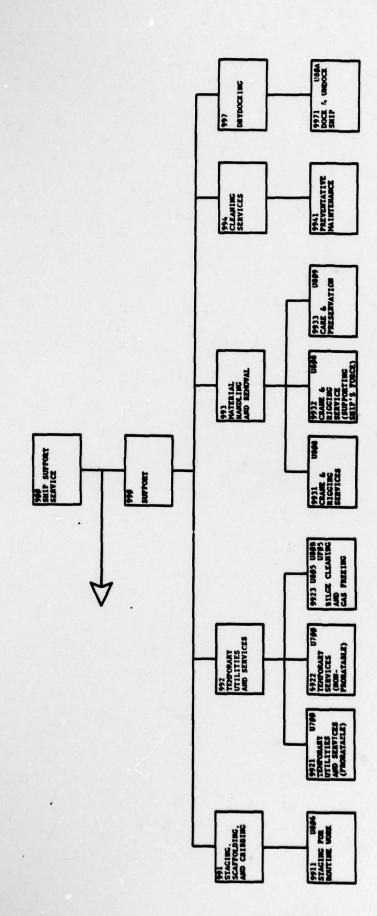
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APPENDIX A COMPONENT DICTIONARY CODE LIST

APPENDIX A COMPONENT DICTIONARY CODE LIST

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CDC LAPL
  AA C92
            ARANDON SHIP ACCESSORIES AND LIFE BOATS
  AB AB-
            SUPPORTS. ANTENNA (ELEX)
  AC 94-003 ACOUSTIC DEVICE-SEE ALSO CONTROL ACCUSTIC DEVICE-MINESWEEPING
  AD 02-006 BOILFR-AUXILIARY. STEAM. WASTE HEAT
  AE 10-006 METER-ELECTRICAL INDICATING. AC AND CC METERS
  AF 52-013 ACTUATOR-HYDRAULIC SEE ALSO CYL-ACT LINEAR AG 61-265 ACTUATOR-PNEUMATIC & FLECTRO-PNEUMATIC
  AH 41-040 CUTTING MACHINE-DXYGEN ACETYLENE
  AT 31-009 CATHODIC PROTECTION EQUIPMENT
  AJ 61-273 ACTUATOR-ELECTRO MECHANICAL
  AK 85-CC8 ACAPTER-MISSILE HANDLING. CARGO HANCLING
  AL 41-122 AGITATOR-PAINT. SHAKER TYPE
  AM AM-
            AMPLIFIFRS (ELEX/ORD)
  AN 33-002 AIR CONDITIONER
            NOT ASSIGNED
  AO
  AP 88-011 VALVE-TEMPERATURE REGULATING. STEAM CONTROL
  AQ 33-012 AIR CONCITIONER-WINDOW UNIT TYPE
  AR C9-OC1 CHARGER-PATTERY.AC
  AS 97-006 ANTENNA ASSEMBLY-SICONICAL OR STUB (HM&E/ELEX)
            ANTENNAE-SIMPLE & COMPLEX (HM&E/ELEX)
  AS AS-
  AT AT-
            ANTENNAF-SIMPLE (ELEX)
  AU 36-001 ALARMS & SIGNALING DEVICES-HORNS. SIRENS AND WHISTLES. AIR CR STEA
  AV 41-006 CHARGER-MAGNET. PCRTABLE
  AW 36-005 ALARMS & SIGNALING DEVICES-WHISTLE. STEAM CR AIR
  AX 41-046 CENTERING MACHINE-SINGLE SPINDLE
  AY 03-00/ COOLER-AIR
  AZ 83-001 SEAL-STERNTUBE. SUBMARINE APPLICATION
  AO 88-021 VALVE-SCILER BLOW
  AL 36-003 ALARMS & SIGNALING DEVICES-BELL-BUZZER- SIREN ELECTRICAL
  AZ 23-009 ALARMS & SIGNALING DEVICES-LIGHT. INCICATOR. ELECTRICAL
  A3 61-079 AMPLIFIER-MAGNETIC
  A4 89-023 VALVE-SAFETY RELIEF. INCLUDING VACUUM BREAKERS
  A5 61-082 AMPLIFIER-HYDRAULIC
            STEERING AND DIVING TOCKS AND REPAIR PARTS
  A6 822
            TOOLS AND EQUIPMENT CONS PLANT
  A7 823
  A8 23-006 ANNUNCIATOR-MECHANICAL DROP-AC
  A9 B24
            PERISCOPES - HOUSING FITTINGS
            BATTERY-PRIMARY TYPE (ELEX)
  BA BA-
  88 88-
            BATTERY-SECONDARY TYPE (ELEX)
  BC C9-005 BATTERY-STCRAGE
  BD 37-001 BEAPING ASSEMBLY-STERN TUBE & STRUT
  BE 41-001 BALANCING INSTRUMENT-PORTABLE
  BF 85-037 BALL. NUT. & SCREW ASSEMBLY
  BG C4-CC2 CONDENSER CHILLER-REFRIGERATION
  BH 37-011 BEARING ASSEMBLY-THRUST. PIVOTED SEGMENTAL. SINGLE OR DOUBLE
  BI 53-OCI CAPSTAN-SEE ALSO MOORING ACCESSORIES
            MEDICAL EGUIPMENT-PORTABLE
  BJ C37
  BK 93-011 BRAKF-PRCPULSION SHAFT (REGARDLESS OF PRIME MOVER)
  BL 37-013 BEARING ASSEMBLY-THRUST AND JOURNAL WITH RESCNANCE CHGR
  BM C5-C23 COOLING UNIT-AIR TURBINE DRIVEN
  BN 37-005 BEARING ASSEMBLY-LINE SHAFT
            NOT ASSIGNED
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CDC LAPL
  BP 25-042 BENCH MARK-CPTICAL
  DQ 41-097 BENDING MACHINE-POWER CPERATED
  BR $3-003 BLENCER-AVIATION FUEL
  BS C5-030 TURBOSUPERCHARGER-CENTRIFUGAL BOILER
  BT 05-031 TURSINE-GAS
  BU C2-OCT BOTLER-MAIN PROPULSION. HP STEAM
  AV C2-005 BOILER-AUXILIARY. HOT WATER
  BW 64-C17 FIRE EXTINGUISHER-PORTABLE
  BX 98-C27 VALVE-CCMPRESSCR SHUT OFF
  8Y C92
            TOCLS AND ACCESSCRIES
  BZ BZ-
            ALARM UNITS (ELEX)
            MINDR LANDING CREFT AND SMALL BOATS (INCL ALL COMMODITY CLASS 72)
  BI 43-024 BREAD SLICING MACHINE
  22 59-C17 BREATHING APPARATUS
  83 89-OCL BUOY-MESSENGER SEE ALSO UNDERWAY REPLEN ACC
  84 03-0C8 COOLFR-AIR
  B5 30-001 BURNER-CIL. PRESSURE ATCMIZING. BCILER SERVICE
  86 30-002 BURNER-CIL. PRESSURE ATOMIZING. GUN TYPE
  87 30-CC4 BURNER-CIL. VAPORIZING PCT
  88 30-005 SURNER-CIL. RCTARY HORIZONTAL
  B9 30-007 SURNER-CATALYTIC
  CA CA-
            COMMUTATOR ASSEMBLY-SONAR (ELEX)
  CB CS-
            CAPACITOR BANK (ELEX)
  CC 32-C19 CABINET. ICE CREAM SEE ALSO REFRIGERATOR
  CD 28-005 CABINET. RESCLVER CONTRCL-AUTOMATIC PLOTING
  CE 41-005 CABINET. BLAST CLEANING
  CF 85-038 CABLE MACHINERY-DECK
  CG CG-
            CABLE ASSEMBLY-RF (ELEX)
            GASOLINE AND JP - FUEL SYSTEMS TOOLS AND FITTINGS
  CH C15
  CI 43-027 CABINET. DOUGH PROOFING
  CJ 54-006 CAMERA-COPYING. LITHOGRAPHIC
  CK CK-
            CRYSTAL KITS (ELEX)
  CL 99-002 CARBON DICKIDE
  CM CM-
            COMPARATOR (ELEX)
  CN CN-
            COMPENSATOR (ELEX)
  CO C-
            CONTROLS (ELFX/ORD)
  CP CP-
            COMPUTER (ELEX/CRD)
  CO 85-042 CARRIAGE/CAR/CART/TRACTCR/TRAILOR
  CR CR-
            CRYSTALS (ELEX)
  CS 05-032 BASE/ENCLOSURE-GAS TURBINE
  CT 41-147 CARTON MACHINE
  CU CU-
            COUPLER (ELEX)
            CONVERTER (ELEX/CRO)
  CV CV-
            CONVERTER (FLEX/CRD)
  CV
  CW CW-
            RADOMES (ELEX)
  CX CX-
            CABLE ASSEMBLIES. NON RF (ELEX)
            CASES AND CARINETS (ELEX)
  CY CY-
  CZ 32-0C3 CHILLER-WATER
  CO 88-029 VALVE-REGULATING. WATER FLOW. FOR REFFIGERATION SYSTEMS
  CL 76-CC4 CHLOPINATOR
  C2 31-032 CHCCK-RCLLER. DECK AND STERN
  C3 14-001 CIRCUIT BREAKER-NAVY TYPE AGB AND AGBLE
  C4 14-002 CIRCUIT BREAKER-NAVY TYPE NOB AND NLB
  CS 14-003 CIRCUIT BREAKER-NAVY TYPE ACB
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CDC LAPL
  C6 14-004 CIRCUIT BREAKER-NAVY TYPE ALB
  C7 14-006 CIRCUIT BREAKER-CTHER THAN AOB. NOB. ACB.ALB TYPES
  C8 41-148 CLEANING MACHINE-ALL TYPES EXCEPT BLAST CLNG CAB
  C9 99-006 CLOSFR-DOOR HYDRAULIC
  DA DA-
             DUMMY LCAD (ELEX)
  DB 33-007 DAMPER-ACTUATOR AND POSITIONER
  DC 40-006 DAMPER-VENT. CCMBUSTION CONTROL
  DD 56-OC1 DAVITS. ALL TYPES
  DE 28-003 DEAD RECKONING ECUIPMENT
  DF 85-024 DEFLECTOR. JET PLAST
NG 46-012 DEGAUSSING MAGNETIC MEASUREMENT SYSTEM
  DH 41-011 DEGREASER
             DISPENSER-CHAFF (ELEX)
  01 0-
  DJ 44-002 DEHUMIDIFIER-DESICCANT ELECTRIC
  DK 44-CC9 DEHUMIDIFIEP-SPACE. MECH REFRIG SELF CONTAINED
  DL 32-005 DEHYDRATCR-REFRIGERATION
  04 44-001 DEHYDRATOR-FILTER, DESICCANT, HGH PRES AIR, SELF REAC
  ON 44-004 DEHYDRATOR-NON REACTIVATING
             NOT ASSIGNED
  00
  DP C8-007 DEMINERALIZER-WATER. ION EXCHANGE
  DO 99-027 DESUPERHEATERS-ALL TYPES
  DR C6-2C5 COMPRESSOR UNIT-AIR
  DS 33-005 CAMPEP-MECHANICAL EXHAUST VENTILATION SYS
  OT CT-
             DETECTING HEADS (ELEX)
  DU 54-021 DEVELOPING MACHINE-BLACK AND WHITE PRCCESS
  DV 43-001 DISH WASHING MACHINE
  DW 41-C49 DISINTEGRATING MACH-METAL. ELEC ARC
  DX 32-014 DISPENSER-DRINKING WTR SEE ALSO DRNKG FTN(67-006)
             DYNAMOTORS (FLEX)
  DY CY-
  02 32-032 DISPENSER-MECHANICALLY REFRIGERATED, MILK DO C9-002 CHARGER-BATTERY. D.C.
  D1 41-146 DISPENSER-TAPE. ELECTRIC
  D2 32-031 DISPLAY CASE-MECH REF. SELF CONTND/NON-REFR
  D3 C6-CO2 COMPRESSOR-RECIPPOCATING
  D4 08-OCI DISTILLATION UNIT
  D5 52-015 DESURGER-HYDRAULIC
  D6 32-027 DISPENSER-MECH REF.OTHR THN MLK SEE CAB.ICE CR/FREEZR D7 09-005 DISTILLATION UNIT-VAPOR COMPRESSION
  D8 85-011 COLLY-BOATSTORAGE SEE ALSO TRK/DOLLY/CRADLE ASS
  D9 31-034 DOCR-RCLLER CURTAIN. SHIPBRD. HAND CR PWR GPER
  EA 74-001 EDUCTOR-LIGUID
  FR 49-001 CARBURETOR
  EC 73-010 EJECTCR-GARBAGE AND TRASH DISPOSAL
  ED C7-011 HEATER-FLUID
  EF 88-031 VALVE-BURBLER
  EF 73-012 EJECTOR-SIGNAL
  EG 73-001 EJECTCR ASSEMBLY-AIR
  EH E-
             HOISTS (ELEX)
 EI
             NOT ASSIGNED
  EJ 11-003 CONVERTER
  EK 849
             NITROGEN CHARGING ASSEMBLY
  EL 59-OC1 ELEVATOR-ELECTRO MECHANICAL
  EM 15-013 CONTROLLER-AC
  EN 16-010 GENERATOR-GAS
  EO
             NOT ASSIGNED
  EP 59-002 ELEVATOR-AIRCRAFT LIFTING
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CDC LAPL

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EQ 41-050 EMBOSSING MACHINE-METAL & CROBRO ALSO OFF MACH ACC
ER 15-012 BENCH-LIQUID CXYGEN CONVERTER FILL
CS 66-001 ENGINE-DIESEL. SHIP PROPULSION AND SHIP'S SERVICE. 2 & 4 CYCLE
ET 22-022 SWITCHRCARD-MINESWEEPING
EU 88-037 VALVE-REFRIGERATION SHUT OFF. SMALLER THAN 3/4 IN
EV 66-CC5 ENGINE-CIESEL. 2 & 4 CYC. TYPE B
EW 16-014 BOOSTER-GAS
EX 66-CG6 ENGINF-DIESEL.NCN-MAGNETIC MINESWP PROP & AUX 4 CYC
EY 66-017 ENGINE-GASOLINE AIR CR FLUID COOLEC
EZ 18-COT MOTOR GENERATOR
EO 88-042 VALVE-FLCAT. LIQUID LEVEL CONTROL. REFRIGERATION SYSTEMS
EL 66-019 ENGINE-GASOLINE. BOAT PROP. OUTBOARD MOTOR
E2 66-020 ENGINF-STEAM.RECIPROCATING.MN PROP & AUX SERVICE
E3 83-C44 VALVE-STEAM SEAL MANIFOLD
E4 88-045 VALVE-GUARDING
E5 41-C51 ENGRAVING MACHINE PANTEGRAPH
E6 59-0C5 ESCALATCR
E7 C9-011 EXCHANGER. ICN
E8 93-001 EXPANSION JOINTS-PIPE. PACKLESS
E9 98-046 VALVE-TRIP THRCTTLE
FA 40-001 FAN-VANEAXIAL AND/OR TUBEAXIAL
FB 18-009 MOTOR GENERATOR
FC 40-002 FAN-CENTRIFUGAL
FD 20-002 RHEDSTAT
FE 40-CC3 FAN-CIRCULATING
FF 40-009 FAN-CENTRIFUGAL. CARBON DIOXIDE REMOVAL SYS
FG 99-030 FEEDRAIL-BRIDGE CRANE
FH 41-076 FILING MACHINE-SAW. BLADE
FI C56
         BOILER FEEDWATER TEST AND TREATMENT
FJ C9-010 FILLER-PORTABLE BATTERY WATER
FK 49-002 FILTER-FLUIC.PRESSURE
          FILTER UNITS (ELEX)
FL F-
FM 20-006 RHEOSTAT
FN FN-
          FURNITURE (ELEX)
FO
          NOT ASSIGNED
FP 88-048 VALVE-CROSSOVER AND MANIFOLD
FO 43-034 FILTER-CCCKING GREASE
          FREQUENCY MEASURING DEVICES (ELEX)
FR FR-
          FUEL OIL STOWAGE AND EQUIPMENT
FS C55
FT 31-023 FITTINGS-HULL SEE ALSO TOWING-ACC. MOORING ACC
FU 24-GC2 FIXTURE-LIGHTING
FV 49-CC6 FILTEP-AIR. WET CR DRY ELEMENTS
FW 76-0C3 FILTER-WATER PURIFICATION
FX 31-012 FLAME ARRESTER-VENTILATION
FY 54-015 FOLDING MACHINE-PAPER
FZ 43-012 GRINDERS AND CUTTERS-FOCD ELECTRICAL
FO 16-011 FURNANCE ASS CXY CANDLE ROUND AND SOUARE
F1 43-059 FOOD WARMER-RADIANT. OVERHEAD. ELECTRIC
F2 41-016 FORGE-DIL BURNING ELEC OR OTHER ALSC FURNACE
F3 41-053 FORGING MACHINE-HAMMER VERTICAL
F4 41-017 FORMING MACHINE-SHEET METAL
FS 54-0C4 FRAME PRINTING
F6 43-006 FRYERS-DEEP FAT. ELECTRIC
F7 85-046 FUEL DISPERSING SYS
F8 41-019 FURNANCE- ELECTRIC
F9 41-020 FURNANCE-OIL BURNING
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CDC LAPL
  6A 45-003 GAGE-LIC ONTY MECHANICAL SEE ALSO INDICATOR AND METER
  GB 45-004 GAGE-LICUID CUANTITY HYDRAULIC/PNEUMATIC
  GC 45-007 GAGF-PRESSURE
  GD 45-009 GAGE-DEPTH SUPMARINE
  GF 43-002 GALLEY FOUIPMENT-ELECTRICAL
  GF 43-CC9 GARBAGE DISPCSAL MACHINE
  GG 31-0C5 GATE-STERN SEF ALSO DOCK OR HATCH
            GENERATOR-POWER (ELEX)
  GH G-
  GI 967
            OPERATING GEAR MISCELLANEOUS REPAIR PARTS
  GJ 43-047 DOUGHNUT MACHINE-CUTTING AND FRYING
  GK 69-028 GFAR-TURNING/JACK DEVICE
  GL 69-029 GEAR-TILTING
  GM 69-006 GEAR ASSEMBLY-SPEED DECREASER. MAIN PRCP SERVICE
  GN 69-016 GEAR ASSEMBLY-SPEED GECREASER. AUX SERVICE
  GO GO-
            GONICMETERS (FLEX)
            GROUND RCDS (ELEX)
  GP GP-
  GO 851
            SOILER FEEDWATER SYSTEM CONTROL FITTINGS
  GR 23-008 SEMAPHORE-MECHANICAL SIGNAL
  GS 43-044 GALLEY UNITS-CCMPACT
  GT 16-006 GENERATOR-DC OR AC
  GU 24-004 FIXTURE-LIGHTING FLUCRESCENT
  GV 24-CC6 FIXTURE-LIGHTING MERCURY VAPOR
  GW 16-CCB GENERATOR-SMCKE. MECHANICAL
  GX 16-009 GENERATOR-OXYGEN/NITROGEN
  GY 16-001 GENERATOR-BATTERY CHARGING
  GZ 70-OC1 GOVERNOR-MECHANICAL
  GO
            FUEL GELLING UNIT MIG - 10
  GI 70-005 GOVERNOR-HYDRAULIC
  GZ 88-072 GOVERNOO-PUMP
  G3 70-013 GOVERNOR-ELECTRO HYDRAULIC
  G4 70-014 GOVEPNOR-ELECTRIC
  G5 23-004 SEARCHLIGHT-SIGNAL
  G6 41-057 GRINDING MACHINE-CYCLINDRICAL
  G7 41-060 GRINDING MACHINE-GLASS
  G8 41-063 GRINDING MACHINE-VALVE
  G9 41-065 GRINDING MACHINE-SURFACE. RECIPROCATING
  HA 85-031 HANDLING GEAR-GUIDANCE CAPSULE
  HB 85-045 HANGAR-AIRCRAFT
            HOLDER. CRYSTAL (ELEX)
  HC HC-
  HD H7-
            ENVIRONMENTAL APPARATUS (ELEX)
  HE C7-002 HEATER-FLUID. FUEL OIL AND LUBE OIL. STEAM HEATED
  HE CT-OC3 HEATER-WATER AND ATR
  HG 26-015 PROJECTOR-MOTION PICTURE, SOUND, SUPER 8MM
  HH 07-004 HEATER-WATER. STM/HT WTR HTD.INST. STM WTR CVTR
  HI 07-001 HEATER-FLUID. SEA WATER. STEAM HEATED
  HI 07-005 HEATER-FLD. DEAERATING. BOILER FOWTR. TYPES I & II
  HK C7-006 HEATER-IMMERSION. ELECTRIC
  HL 07-CC7 HEATER-SPACE ELEC. TYP D RADIANT. TYPE T TUR. RAD PANL
  HM 26-016 PROJECTOR-MOTION PICTURE, SOUND, SUPER 16MM
  HN 07-013 HEATER-WTR. ELECTRIC STORAGE TYPE
            NOT ASSIGNED
  MP 07-016 HEATER-CCOLANT ENGINE. OIL FIRED OR ELECTRIC
  HO 07-022 HEATER-VENTILATION . VENT DUCT. ELEC. TYP 51-61
  HR 07-023 HEATER-SPACE ELECTRIC. BLOWER. TYPE B
  HS H-
            HEAD. HAND. AND CHEST SETS (ELEX)
  MT 07-017 HEATER-AIR CIRCULATING UNIT. STEAM CR HT WIR HTD
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CDC LAPL
 HU 07-045 HEATING ELEMENTS-ELEMENTS-ELECTRICAL
 HV 07-036 HEATING UNIT-ELEC. CONTRLO TEMP FOR STRSS RELF PRHTG
 HW 58-OCL HOIST-WIRERCPE ELECTRIC
 HX 58-0C2 HOTST-MANUAL
  HY 58-003 HOIST-ELECTRO HYDRAULIC & ELECTRO-MECHANICAL
 HZ 58-064 HOIST-CHAIN ELECTRIC
 HO 61-116 HYDROSTAT. CENTREL
  HI 59-OCS HOIST-PREUMATIC
  HZ 58-0C6 MOIST-HYDRAULIC
 H3 85-025 HOIST-WINDSCREEN
 H4 87-CC9 HOIST-RCOMETER. U/W LOG
  HS 52-033 HOIST ASSEMBLY-CYL & RAM TYP FOR COMMUN MAST
  H6 41-069 HONING MACHINE-HCRIZONTAL OR VERTICAL
  H7 33-010 HUMIDIFIER
  H8 52-016 HYDRAULIC MECHANISM SEE ALSO MISSLE HNDG SYS-HYD
  H9 31-033 HYDROFOIL ASSEMBLY
  IA 64-018 FIRE EXTINGUISHING SYSTEM
  18 66-002 ENGINE-DIESEL. TWO CYCLE
  IC 865
            IC COMMUNICATION EQUIPMENT
            INDICATOR-NON CATHODE RAY TUBE (ELEX/CRD)
  10 10-
  IE 66-018 FNGINE-GASOLINE
  IF 66-021 ENGINE-CIESEL. NCNMAGNETIC
  IG 66-022 ENGINE-DIESEL. MCDEL 645
  IH 69-026 GEAR ASSEMBLY-SPEED INCREASER
  II 71-OCI DISTRIBUTGR-IGNITION SYSTEM
  IJ 73-011 EJECTCR-SEWAGE
  IK 78-018 COUPLING ASSEMBLY
  IL IL-
            INSULATORS (ELEX)
  TM IM-
            INTENSITY MEASURING DEVICES (ELEX)
  IN 79-003 MUFFLER-DRY
  10
            NOT ASSIGNED
  IP IP-
            INDICATORS-CATHOCE RAY TUBE (ELEX)
  10 83-015 CONTROL EGARC-CONTROLLABLE PITCH PROPELLER. EMER. PITCH CONTROL
  IR 91-004 LAUNDRY PRESS-COMMERCIAL
  IS 859
            AIR CONDITIONING REFRIGERATION TOOLS AND ACCESSORIES
  IT 92-020 TANK-LUBE DIL STORAGE AND CONDITIONING ASSEMBLY
  IU 94-004 ACOUSTIC DEVICE
  IV 94-005 ACOUSTIC DEVICE
  IW
            NOT ASSIGNED
  IX 97-012 SUB ASSEMBLIES-PERISCOPE
  IY 97-018 CAMERA ACCESSCRIES-PERISCOPE
  IZ 99-029 RECEIVER-FUELING PROBE
            NOT ASSIGNED
  10
            NOT ASSIGNED
  11
  12 864
            NAVIGATIONAL SIGNAL LIGHTS
            NOT ASSIGNED
  13
            NOT ASSIGNED
  14
            NOT ASSIGNED
  15
  16
            NOT ASSIGNED
  17
            NOT ASSIGNED
            NOT ASSIGNED
  18
            NOT ASSIGNED
  19
 JA 43-028 ICE CREAM CUP FILLING MACHINE- HANC CPERATEC
 JB 32-017 ICE CREAM FREEZER-PWR OPER WITH INTERL MCH REF EO
 JC 32-022 ICE MAKING MACHINE-MECH REFRIG SELF CONTAINED
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CDC LAPL

JD J-INTERFACE UNITS (ELFX) JE 32-004 ICE MAKING PLANT JF 41-032 IMPREGNATING FCUIPMENT JG 30-306 INCINERATOR SEE ALSO BURNER JH 27-009 SALINITY INDICATING EQUIPMENT NOT ASSIGNED JI JJ 38-002 INDICATOR-TEMPERATURE. ELECTRICAL JK 28-028 NAVIGATION EQUIPMENT JL 38-GOT INDICATOR-BOILER SMOKE JM 39-014 INDICATOR-SALINITY & SALINITY CELL JN 38-015 INDICATOR-PRES DIFFERTL, LIGISTM LVL. DIR OR REM 10 NOT ASSIGNED JP 38-015 INDICATOR-MECHANICAL TACHOMETER JO 36-020 INDICATOR-LIO LVL. FLOW. WATER AND FUEL JR 45-001 INDICATOR-SIGHT LIQUID. FLAT JS 45-002 INDICATOR-SIGHT LIQUID. TUBULAR JT 45-005 INDICATOR-METER. DIFFERENTIAL PRESSURE JU 61-025 INDICATOR-PORTABLE SHIP CONTROL JV 41-111 VULCANIZER - PLBBER COVERED CABLE JW 29-001 INJECTOR- FUFL DIESEL ENGINE NOZZLE NON-MET TYP JX 29-002 INJECTOR-FUEL. DIESEL ENGINE. UNIT METERING AND PRES JY 43-060 INJECTOR-RINSE AGENT FOR DISHWASHING MACHINE JZ 287 MEASURING AND INCIDATING INSTRUMENTS JO 31-011 TENSION UNIT-HYDRAULIC RAM J1 27-009 INTERCOMMUNICATION STATION JZ 97-002 MAST-ANTENNA J3 97-013 MAST-SNORKEL NUCLEAR POWER PLANT - CCCLANT DISCHARGE SYSTEM VALVE J4 589 J5 85-035 JACK ASSEMBLY-HAND. SCREW. HYDRAULIC/PNEUMATIC OPR J6 41-034 JOINTER-WEODWERKING J7 27-010 TELEPHONE ECUIPMENT-DIAL J8 43-008 KETTLE-STEAM JACKETED J9 41-070 KEY DUPLICATING MACHINE KA 40-004 DRIER-HAND. FLECTRIC KR 86-003 DRIFR-PHCTGGRAPHIC KC 41-014 DRILLING MACHINE-FLOOR GR BENCH KO 43-050 TABLE-FCCD WARMER. ELECTRIC/STEAM HEATED KE 54-014 DRILLING MACHINE-PAPER KF 67-006 DRINKING FOUNTAIN KG 52-001 DRIVE ASSEMBLY-ELECTRO HYDRAULIC AMMUN HOIST KH 52-004 DRIVE ASSEMBLY-ELECTRO HYD HST. VERT TUB..12.75RKT KI 16-005 TACHOMETER SEE ALSO INDICATOR-MECHANIC TACHOMETER KJ 52-007 ORIVE ASSEMBLY-ELECTROHYDRAULIC HOIST.3000# MIS TRAV KK 88-063 VALVE-PRESSURE REGULATING KL 85-004 DRIVE ASSEMBLY-SLIDING BLOCK KM 91-008 DRY CLEANING PRESS KN S1-OC7 DRY CLEANING UNIT ASS-AUTO.SYNTHET SCLVENT TYPE KO NOT ASSIGNED KP 54-018 CRYING MACHINE BLUEPRINT KO 91-002 DRYING TUMBLER-LAUNDRY KR 59-0C3 DUMBWAITER KS 54-002 DUPLICATING MACHINE-OFFSET SEE ALSO CFF MACH ACC KT 41-015 DYNAMOMETER KU 41-131 TANK-HOT DIP KV 92-005 TANK-DIESEL ENGINE.AIR STARTING KW 92-001 TANK-STCRAGE

CDC LAPL

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KX 88-104 VALVE-STOP CHECK
KY KY-
         KEYING DEVICES (ELEX)
KZ 88-117 VALVE SURPLATE
KO 88-125 VALVE-PRESSURE CENTROL
K1 88-129 VALVE-PRESSURE REGULATING
K2 88-130 VALVE-HYDRAULIC CONTROL
K3 01-010 PUMP. ROTARY PISTON. FIXED OR VARIABLE CELIVERY
K4 88-134 VALVE-SHUTTLE
K5 88-135 VALVE-HYDRAULIC
K6 88-138 VALVE-CHECK. INLINE. UNCER $25.00
K7 01-025 PUMP. PCRTABLE SUBMERSIBLE
K8 88-142 VALVE-CHECK. INLINE. $25.00 AND ABOVE
K9 88-158 VALVE-TEST CASTING
LA 24-009 LANTERN-ELECTRIC. BATTERY TYPE
LB 41-036 LATHE-METAL WERKING
          TOOLS-LINE CONSTRUCTION (ELEX)
TC TC-
LD 91-012 LAUNDRY EQUIPMENT
LE 23-002 LIGHT-INDICATOR
LF 24-008 LIGHT-NAVIGATIONAL MARINE
LG 54-024 LIGHT-ARC PHCTCL ITHOGRAPHIC
LH 16-015 LIQUIDIFIED GAS STORAGE AND CHARGING SYS
LI
          NOT ASSIGNED
LJ 54-GC7 LITHCGRAPHIC . NEGATIVE AND PLATE MAKING
LK 99-020 LCCK-ELECTRCMECHANICAL
LL 28-018 LCCKER-BINOCULAR DRYING
LM 26-013 LOUDSPEAKER-MOTION PICTURE PROJECTOR
LN 65-001 LUBRICATOR-MECHANICALLY OR HAND OPERATED
LO
          NOT ASSIGNED
LP 65-002 LUBRICATCR-AIR OPERATED
LO CL6
          LADDERS AND ACCESS CLCSURE EQUIPMENT
LR 845
          LUBE OIL PIPING SYSTEM REPAIR PARTS
LS LS-
          LOUDSPEAKERS (ELEX)
LT 41-037 LATHE-WCCDWORKING
LU 88-159 VALVE-DISTRIBUTGE LUBRICATION
LV 41-141 UNDERCUTTER - ARMATURE. MICA. ELECTRICAL OPERATED
          UNDERWAY REPLENISHMENT TOOLS AND ACCESSCRIES
LW C20
LX 32-008 UNION TUBE - REFRIGERATION
LY 43-005 URNS -COFFEE
LZ 99-162 VALVE-SHEARING
LO 88-169 VALVE-LINE BLIND
          LAUNCHER STANC-WEAPON SYSTEM
LI
          LAUNCHER GUICFS-WEAPON SYSTEM
L2
L3
          TRAIN ASSEMBLY-WEAPON SYSTEM
          ELFVATION ASSEMBLY-WEAPON SYSTEM
L4
          AMPLIFIER . POWER CRIVE-WEAPON SYSTEM
L5
          RAMMER-LCADER ASSEMBLY-WEAPON SYSTEM
L7 88-170 VALVE AND TRAP MANIFOLD
L8 88-177 VALVE-SPECIAL STCP CHECK
L9 88-186 VALVE-FLCW FUSE
          MAGAZINE-MAGNETIC TAPE OR WIRE (ELEX)
MA MA-
MB 68-001 MAGNETO-IGNITION
MC 32-006 MANIFOLD-REFRIGERATION
          MODULATORS. DEMOCULATORS. AND DISCRIMINATORS (ELEX)
-OM OM
ME ME-
          METERS (ELEX)
MF MF-
          MAGNETS CR MAGNETIC FIELD GENERATORS (ELEX)
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MG 45-008 MANOMETER-U TUBE AND OTHER TYPES

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CDC LAPL
  MM 91-466 MARKING MACHINE-LAUNDRY
  HI K-
            MICROPHONES (ELEX)
  MJ 85-030 MAST-HINGED
  MK MK-
            MISCELLANGOUS KITS (ELEX)
  ML ML -
            METECROLOGICAL DEVICES (ELEX)
  MM 43-016 MEAT SLICING MACH-ELEC & MANUAL SEE ALSO FOCO CUTTER
  MN 43-021 MEAT TENDERIZER-ELECTRIC
  NO
            NOT ASSIGNED
  MP 10-001 METER-VOLUMETRIC. POS CISPL. FUEL CIL. MTR. GAS. JP-S. AL T MO 10-002 METER-FLOWRATE INDICATING. FLOAT TYPE ROTAMETER
  MR 10-003 METER-IMPELLER TYPE LICUID VELOCITY
  MS 10-004 METER-VENTUR! TYPE
  MT MT-
            MOUNTINGS (ELEX)
  MU MU-
            MEMORY UNITS (ELEX)
  MV 41-042 MILLING MACHINE-HORIZONTAL
  MW 41-043 MILLING MACHINE-WCCDWORKING. VERTICAL. BCRING
             MISCELLANEOUS ECUIPMENT (ELEX)
  MX MX-
  MY 41-038 MIXER-LIQUID. PORTABLE
  MZ 43-004 MIXING MACHINE-ELECTRIC. FOOD AND FLUID
  MO 29-031 SEXTANT. MARINE
  MI 43-035 MOLDING MACHINES-MEAT. FISH
  M2 C26
            ANCHORING AND MOCRING APPLIANCES
  M3 41-088 MORTISER-HOLLOW CHISEL
  M4 17-023 MOTOR-ACING 0.25 HORSEPOWER AND SMALLER
  M5 31-039 SONAR DOME WINCOW SYSTEM
  M6 10-005 METER-FLCWRATE INDICATING. VANE TYPE
  MT 17-001 MOTOR-AC OR DC
  M8 31-040 TENSIONING DEVICE-TORSION BAR
  M9 532
            MISCELLANFOUS FLAG ALLCWANCES. OFFICE MACHINES
  NA 32-021 CARBENATER-SEDA FEUNTAIN
NB 13-013 TRANSFORMERS-REPAIRABLE AND NON-REPAIRABLE
  NC 32-025 ICE CREAM FREEZER
  NO 33-004 CHILLER-WATER. AIR CONCITIONING
  NE 61-080 AMPLIFIER-ELECTRONIC
  NF 52-065 TPANSMISSION-HYDRAULIC.FIXED OR VARIABLE DELIVERY SEE ALSO POWER UNIT
  NG 69-011 TRANSMISSION-MECHANICAL
  NH 27-005 TRANSMITTER-MECHANICAL
            NOT ASSIGNED
  NI
  NJ 27-066 TXMTP-LIG LVL AND/OR FLOW.CAP.FLOAT.IND.RAGICACT.RES AND SONIC TYPE
  NK 27-021 TPANSMITTER-LIQUID LEVEL. FLECTRICAL
  NL 28-024 TRANSMITTER-NAVIGATIONAL
  NM 61-055 TRANSMITTER-TEMPERATURE SEE ALSO INCICATOR - TEMPERATURE. ELEC RESIST
  NN 27-CCL TRANSMITTER/INDICATOR-ELECTRICAL TRANSMITTER TYPES
            NOT ASSIGNED
  NO
  NP 54-022 PRINTING MACHINE-BLUEPRINT
  NO 85-043 STAND-415SILE
  NR 88-192 VALVE-PRESSURE REGULATING. HIGH PRESSURE AIR
  NS
            STEEL PLATE
  NT 88-193 VALVE-FLCW CONTROL
  NU 88-201 VALVE-CPFICE
  NV 77-001 TRAP-STEAM AND/OR AIR
  NW 37-016 BEARING-JOURNAL. PIVOTED PAD/SHOE
  NX 38-021 INDICATING SYSTEM-LIQUID LEVEL. PNEUMATIC
  NY 41-002 BALANCING MACHINE-DYNAMIC. STATIC. HCRIZONTAL
  NZ 41-031 MACHINE-HOSE ASSEMBLY. REPAIR AND CUTCFF
  NO 93-004 NOZZLE-PRESSURE FUEL SERVICING
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CDC LAPL
  N. C24
            NAVIGATION EQUIPMENT AND ACCESSORIES
  MZ 28-027 NAVIGATION FOUIPMENT-PLOTTING SYS SEE ALSO PLTG TABLE
  N3 28-026 NAVIGATION EQUIPMENT-DEAD RECKONING EQUIPMENT
  N4 28-OCL NAVIGATION PLCTTING BOARDS
  NS 28-OLL NAVIGATIONAL CLOCKS
  N6 31-041 DOOR-HINGED-HAND OPERATED
  N7 64-001 NOZZLE-FIRE HOSE SEE ALSO DAMAGE CONTROL ACC
  NB 64-CC3 NOZZLE-MCNITCR TYPE
  NO 64-004 NOZZLE-WATER QUENCH
            MISCELLANEOUS GROUPS (ELEX)
  CA OA-
            MULTIPLEXER AND/CR DEMULTIPLEXER GRCUPS (ELEX)
  OB 03-
            OCEANOGRAPHIC DEVICES (ELEX)
  חכ סכ-
  00 00-
            INDICATOR GROUPS (ELEX/CRD)
  DE DE-
            ANTENNA GROUPS (ELEX)
  OF OF-
            ADAPTER GROUPS (FLEX)
  OG OG-
            AMPLIFIER GRCUPS (ELEX)
            SIMULATER GREUPS (ELEX)
  OH OH-
  CI C-
            OSCILLATORS (ELEX)
  07 07-
            CONSCLES AND CONSOLE GROUPS (ELEX/CRC)
  OK OK-
            CONTROL GROUPS (ELEX/ORD)
            DATA ANALYSIS AND DATA PROCESSING (ELFX)
  OL OL-
  -MC MO
            MODULATOR ANC/CR CEMCDULATOR GROUPS (ELEX)
  ON ON-
            INTERCONNECTING GROUPS (ELEX)
  00
            NOT ASSIGNED
  GP GP-
            POWER SUPPLY GROUPS (ELEX/CRD)
            TEST SET GROUPS (ELEX)
  -00 00
  CR OR-
            RECFIVER GROUPS (ELEX)
  os os-
            OSCILLOSCOPE-TEST (ELEX)
  OT GT-
            TRANSMITTER GROUPS (ELEX)
  -טס טס
            CONVERTER GRCUPS (ELEX)
  OV OV-
            GENERATOR GROUPS (ELEX)
            TERMINAL GROUPS (ELEX)
  OW CW-
  OX OX-
            CODER. DECODER. INTERROGATOR. TRANSPONDER GROUPS (ELEX)
  OY OY-
            RADAR SET GROUPS (ELEX/ORD)
  OZ OZ-
            RADIO SET GRCUPS (ELEX)
            NOT ASSIGNED
  CO
  O1 99-401 NR-1 SUBMERSIBLE RESEARCH SHIP
  02 99-ACZ ATS-1. 2. 3 (UNITED KINGDOM)
  03.59-A03 ORDNANCE FIRE CONTROL SWITCHING EQUIPMENT (HM&E/ORD)
  04 99-AC4 DEEP DIVING SUBMERGENCE SYSTEM
  C5 59-AC5 OCEANOGRAPHIC CCMPONENTS
            TRANSCEIVER GRCUPS
  06
            SONAR SET GROUPS
  07
  08 97-003 ANTENNA SYSTEM-FLCATING WIRE
  09 97-004 ANTENNA SYSTEM-HELICAL. LOOP OR WHIP
  PA 50-033 PANEL-REMOTE VALVE OPERATING
  PB 88-203 VALVE-MIXING. REFRIGERATION. AIR CONDITIONING AND COOLING
  PC 50-0C1 PANEL-FUSE
  PD PD-
            PRIME DRIVERS (ELEX)
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PE 50-OCS PANEL-CCMMUNICATION

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CDC LAPL
  PF PF -
            FITTINGS-POLE (ELEX)
            PIGECN ARTICLES (ELEX)
  PG PG-
  PH PH-
            PHOTOGRAPHIC ARTICLES (ELEX)
  PI 97-011 PERISCOPE-STACIMETER
  PJ 50-010 PANEL-POWER DISTRIBUTION AND/OR CONTROL (HMEE/ORD)
            PANEL-INDICATING (HMEE/ORD)
  PK 50-025 PANEL-INDICATING (HMGE/ORD)
            PLUG-IN UNITS (ELEX)
  PM 41-072 PAPER SPREDDING MACHINE SEE ALSO CFF MACH ACC
  PN 25-004 PELORUS STANC SEE ALSO NAVIGATION ECUIPMENT ACC
  PO
            NOT ASSIGNED
  PP PP-
            POWER SUPPLY-ACAROTATING MACHINE TYPE (ELEX)
  PO 97-008 PERISCOPE-COLLIMATOR
  PR 97-009 DEPLUMERS. FAIRINGS AND SUPPORTS FOR SUBMARINE PERISCOPES AND MASTS
  PS 50-CC9 PANEL-ALARY
  PT PT-
            MAPPING AND PLOTTING UNITS (ELEX)
  PU PU-
            POWER SUPPLY-PCTATING (ELEX)
  PV 41-047 CLEANING MACHINE-CLOCK AND WATCH
  PW 41-073 PINKING MACHINE
            PIPING SYSTEM HARCWARE
  PX 848
  PY 41-091 PLANER-METAL CUTTING
  PZ 97-010 PERISCOPE-SEXTANT
  PO 11-009 POWER SUPPLY-AN/SOS-26 SONAR
  PI 28-029 PLOTTING TABLE. MK NC2 MODO.2 & 3 SEE ALSO NAVIG EQ (HM&E/CRD)
            SANITATION EQUIPMENT AND REPAIR PARTS
  P2 836
  P3 27-011 PNEUMATIC TUBE SYSTEMS-COMMUNICATION
  P4 41-093 POLISHER-METALLURGICAL
  PS 41-095 POSITIONER-WELDING
  P6 41-094 POT-MELTING. ELEC
  P7 97-OC1 PERISCOPE-SUBMARINE
  P8 11-001 POWER SUPPLY-METALLIC RECTIFIER OR SEMICONDUCTOR DIODE TYPE
  P9 41-008 CLEANFR-STEAM PRESSURE JET
  OA 54-C10 PRINTING MACHINE-HEAT DEVELOPING
  OB 54-OC5 PRINTING PRESS-OFFSET
  QC 54-008 PRINTING PRESS-LETTER PRESS
  OD 54-019 PRINTING PRESS-LETTER
  OF 54-025 PRINTING PRESS-PROOF
  OF 99-028 PROBE AND CARRIER-FUELNG SEE ALSO FUEL CIL SYS ACC
  OG 54-017 PROCESSING MACHINE-BLUE PRINT
  OH 86-C13 PPOCESSING MACHINE-PHOTOGRAPHIC FILM
  10
            NOT ASSIGNED
  OJ 61-117 PROGRAM CONTROLLER
  OK 26-001 PROJECTION EQUIPMENT-MOTION PICTURE
  OL 26-002 PROJECTION ECUIPMENT-STILL PICTURE
  OM 83-030 PROPELLER ASSEMBLY-CONSTANT PITCH
  ON 64-007 RECHARGING UNIT-COZ PUMPING METHOD
  90
            NOT ASSIGNED
  OP 89-002 RESCUE CHAMBER AND RECOMPRESSION TANK
  00 55-002 REELING MACHINE-HOSE
  OR 32-039 REFRIGERATION SYSTEM-ABSORPTION
  OS 83-034 PROPFLLER ASSEMBLY-CONTROLLABLE PITCH
  OT 64-008 PROPORTIONER-FOAM LIO SEE ALSO DAMAGE CONTRL ACC
  OU 83-043 PROPULSION DRIVE UNIT-STERN
  OV 01-038 PUMP UNIT-PUMP AND ACCESSORIES INSTALLED AS A UNIT
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CDC LAPL
  CW 88-213 VALVE-OVERFLCW
  OX C1-O11 PUMP-CENTRIFUGAL. POWER DRIVEN
  OY 32-023 REFRIGERATION-MECHANICAL
  OZ 42-301 REGULATOR-ELECTRICAL (EXCPT ENGINE GENERATOR)
  QO 88-231 VALVE-CROSS
  Q1 01-017 PUMP-CENTRIFUGAL. POWER DRIVEN. CLOSE-COUPLED CR COUPLING DESIGN
  02 88-245 VALVE-DIRECTIONAL INTERLOCK
  03 88-248 VALVE-PILOT. PNEUMATIC CPERATED
  04 01-001 PUMP-CENTRIFUGAL. BOILER FEED
  05 88-249 VALVE-CONTROL THERMAL
  06 41-048 CLEANING MACHINE-ELECTRIC AND DILBURNING
  07 88-251 VALVE-LCW PUMP SECTION. SAFETY TRIP
  Q8 88-252 VALVE-CENTROL AIR
  09 01-014 PUMP-HAND DRIVE. OSCILLATING. RECIPROCATING OR ROTARY
  RA 58-007 RACK-REACY SERVICE
  RB 52-029 RAM-HYDRAULIC
  RC RC-
            REELS (FLEX)
  RD RO-
            RECORDER/REPRCDUCERS (ELEX)
  RE RE-
            RELAY ASSEMBLY UNITS (ELEX/CRD)
  RF RF-
            RADIO FREQUENCY COMPONENTS (ELEX)
  RG RG-
            CABLES. RF BULK-(ELEX)
  RH 16-013 RECONDENSER SYSTER-NITROGEN AND OXYGEN
            COMMISSARY EQUIPMENT
  RI 834
  RJ 32-CO7 REFRIGERATION PURGE UNIT
  RK 46-010 RECORDEP-PNEUMATIC AND ELECTRO-PNEUMATIC
  PL RL-
            REELING MACHINES (ELEX/ORD)
  RM 41-084 CLEANING MACHINE-TANK
  RN 55-0C3 REEL-HOSE.
  PO RO-
            RECORDERS (ELFX/CRD)
            REPRODUCERS (FLEX)
  RP RP-
  RO 32-029 REFIGERATED TANK-FILM PROCESSING
            RFFLECTORS-EXCEPT ANTENNA REFLECTORS (ELEX)
  RR RR-
  RS 32-001 REFRIGERATION SYSTEM-MECHANICAL
  RT RT-
            RECEIVER & TRANSMITTER (ELEX)
  RU C88
            DAMAGE CONTROL EQUIPMENT AND ACCESSORIES
  RV R-
            RECEIVERS (ELEX)
  RW 42-002 REGULATOR-ENGINE GENERATOR. BATTERY CHRG. ELECTROMECH
  RX 42-007 REGULATOR-ENGINE GENERATOR. BATTERY CHRG. ELEX
  RY 42-100 REGULATOR-PRESSURE
  RZ 42-101 REGULATOR-FLOW, BOILER FEED WATER
  PO 88-253 VALVE-LINEAR DIRECTIONAL CONTROL WITH ACTUATOR
  RI 42-102 REGULATOR-FLCW. FLCAT CPERATED. DRAIN/MAKE-UP VLV
  R2 42-104 REGULATOR-PRESSURE DXYGEN SERVICE
  P3 99-064 RECEPTACLE ASSEMBLY-CG2 ABSORBENT
  R4 41-067 GRINDING MACHINE-UTILITY
  R5 20-0C3 RESISTOP-VARIABLE
  R6 20-004 RESISTOR-FIXED
  R7 41-104 REWINDING AND INSULATION MACHINES
  R8 20-CC1 RHEDSTAT
  R9 88-254 VALVE-REGULATING. COMPRESSED GAS
  SA SA-
            SWITCHING UNITS (ELEX)
            SWITCHBOARDS (ELEX)
  SB S8-
  SC 41-112 SANDER-BELT. DISK AND SPINDLE
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CDC LAPL
  SP 67-008 SANITATION EQUIPMENT SEE ALSO TOILET-MARINE
  SE 41-114 SAW-ARRASIVE-DISC. MASONRY
  SF 41-115 SAW-RAND
            GENERATOR-SIGNAL (ELEX/ORD)
  SG SG-
            SHELTER (ELEX)
  SH S-
  SI 54-016 COMPOSING MACHINE-PHOTO PRINTING
  SJ 41-120 SAW- POWER HACK
  SK 43-017 SAW BAND. MEAT CLTTING
  SL 41-078 SAW SETTING MACHINE
  SM SM-
            SIMULATORS (ELEX/ORD)
  SN SN-
            SYNCHRONIZERS (ELEX)
  SO
            NOT ASSIGNED
  SP 83-010 SEAL-SWIVEL JOINT TYPE
  SO 41-145 SFALING MACHINE-HEAT
  SR 07-029 HEATER-SPACE. MULTI-FUEL WITH BLOWER
  SS 87-006 SELECTOR-SPEED SENSITIVITY
  ST ST-
            STRAPS (FLEX)
            OPTICAL UNITS (ELEX)
  SU SU-
  SV 67-010 SEWAGE TREATMENT SYSTEM-MULTI TOILETS OR URINALS
  SW 41-080 SEWING MACHINE-HOUSEHOLD AND INDUSTRIAL
  SX 83-017 SHAFT-PRCPULSION. SHIP
  SY 41-119 SAW-JIG. WOCD WORKING
  SZ 83-002 SFAL-STERN TUBE SHAFT
  SO 43-023 SINK-SCULLERY
  SI 41-123 SHAPER-METAL CUTTING AND WOODWORKING
  S2 41-096 BENDING CR FCLDING MACHINE-MANUAL
  S3 99-007 SHELL-MISSILE TURE
  S4 85-014 SHICK ABSORBER-GAS. CIL OR PNEUMATIC
  SS 41-081 SHOE FINISHING AND STITCHING MACHINE
            SHOP FOULPMENT AND ACCESSORIES ON SHIPS
  56 391
  57 40-005 SHUTTER
  S8 41-125 STEVE-FCUNDRY
  S9 43-052 SIFTING MACHINE-FLOUR. ELECTRIC
            TELEPHONE APPARATUS (ELEX)
  TA TA-
  T8 T8-
            TOWED BCDY (FLEX)
  TC TC-
            TOWED CABLE (ELEX)
            TIMING DEVICES (ELEX)
  TO TO-
  TE 92-007
            TANK-LIQUID STORAGE
  TF TF-
            TRANSFORMERS (ELEX)
  TG TG-
            POSITIONING DEVICES-TILT AND/OR TRAIN (ELEX)
            TELEGRAPH APPARATUS (ELEX)
  TH TH-
  TI 61-107 TRANSPUCER-MCTIONAL PICKUP
            VALVE-MANEUVERING AND THROTTLE
  TJ 88-049
            TOOL KITS (ELEX)
  TK TK-
  TL TL-
            TOOLS (ELEX)
  TM 88-250
            VALVE-MANUAL RESET
  TN TN-
            TUNING UNITS (ELEX)
            NOT ASSIGNED
  TO
  TP AN/ A
            INVISIBLE LIGHT. HEAT RADIATION
  TO 52-012 TANK-ACCUMULATOR. HYDRAULIC
  TR TR-
            TRANSDUCERS (ELEX)
  TS TS-
            TEST AND MEASURING EQUIPMENT NOT CTHERWISE CLASSIFIED (ELEX/ORD)
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TELETYPE WRITER AND FACSIMILE APPARATUS (ELEX)

TT TT-

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CDC LAPL
 TU 52-048 COMPENSATOR-HYDRAULIC
 TV TV-
           TESTER-TUBE (FLEX)
           TAPE UNITS-USED FOR OPERATIONAL TEST AND CHECK OUT LELEXI
 TW TW-
           TRANSMITTERS-ALL TYPES EXCEPT TELEPHONE (ELEX)
 TX T-
 TY 31-006 TENSIGNING DEVICE-COUNTERWEIGHT
 TZ 46-002 TEST EQUIPMENT-ANALYZER
 TO 41-149 PUMP-AIRLESS SPRAY PAINT
 TI 46-006 TEST FIXTURES. SETS. STANDS AND CALIBRATORS. ALL TYPES
 TZ 41-150 CLEANER-VACUUM. FLECTRIC
 T3 43-029 TOASTER-ELECTRIC. INTERMITTENT
 T4 43-030 MIXER AND TANK-FLUID ELECTRIC
 TS 43-058 FOOD CUTTER AND MIXER-ELECTRICAL
 TO 43-061 COMPACTCR-TRASH
 TT 46-013 TORSION METER-PROPULSION SHAFTING
 TB 49-010 FILTER-AIR. FLECTROSTATIC
 TO 41-132 TEST FQUIPMENT-MISCELLANEOUS (HMGE/CRC)
 UA U-
           CONNECTORS-AUDIO AND POWER IELEXI
           LAUNDRY FOUIPMENT AND ACCESSORIES
 US C35
 NC CSS
           STEERING GEAR. EMERGENCY
 ND CST
           HYDRAULIC FILTER UNIT. PORTABLE
 UE C30
           PORTABLE CLEATS
 UF C23
           INDUSTRIAL GASES GENERATING, HANDLING AND STCWAGE
           CONNECTORS-RF (ELEX)
 UG UG-
           DIRECTOR-WEAPON SYSTEM
 UH
 10
           NOT ASSIGNED
 UJ 88-014 VALVE-GATE. HYDRCCARBON FUEL SERVICE
 UK 99-018 CABLE ASSEMBLY-ELECTRICAL
 UL 99-031 DISPENSER-CHAFF
 UM 88-032 VALVE-REFRIGERATION SHUT OFF 3/4 IN AND LARGER
 UN 52-005 MISSILE HANDLING SYSTEM-HYDRAULIC
 UD
           NOT ASSIGNED
   41-071 MAGNETIC INSPECTION UNIT PORTABLE
 UP
 UO 50-003 PANEL-TEST ELECTRICAL
           CARGO HANGLING ACCESSORIES
 UR C27
 US 50-GC6 PANEL-INTERICR CCMMUNICATION
 UT 50-008 PANEL-GYRO CR CEAD RECKONING CONTROL
 UU 86-004 SAFELIGHT-DARKROCH. PHOTOGRAPHIC
 UV 29-023 PLOTTING AND TRACING EQUIPMENT
 UN 55-0C4 REEL-CASLE
 UX 19-002 RELAY-ELECTRICAL SEE ALSO TEST EQUIPMENT
 UY 55-OCL REELING MACHINE-CABLE
 UZ 46-003 RECORDEP-ELECTRICAL AND ELECTRONIC
 UO 41-118 SAW-CTRCULAR
 UL
           SHIELD ASSEMBLY-WEAPON SYSTEM
           TRAIN POWER DRIVE ASSEMBLY-WEAPON SYSTEM
 UZ
 U3
           ELEVATION POWER CRIVE ASSEMBLY-WEAPON SYSTEM
           TRAIN TRANSMISSICN ASSEMBLY-WEAPON SYSTEM
 U4
 US
           ELEVATION TRANSMISSION ASSEMBLY-WEAPON SYSTEM
           TRAIN RECEIVER REGULATOR-WEAPON SYSTEM
 30
 U7
           ELFVATION RECEIVER REGULATOR-WEAPON SYSTEM
           CONTROL ASSEMBLY-WEAPON SYSTEM
 U8
 U9
           FUSE SETTER ASSEMBLY-WEAPON SYSTEM
 VA 89-103 VALVE-BALANCING
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VB 88-149 VALVE-ANGLE VC 88-039 VALVE-ASTERN

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CDC LAPL
 VP 838
           ENVIRONMENTAL CONTROL SYSTEM SPARES AND REPAIR PARTS
    68-CCL VALVE-BALL
 VE
           CONTROL-LAUNCHER
 VF
 VG 88-038 VALVE-BUTTERFLY
 VH V-
           VEHICLES-CARTS. DOLLIES. VANS U/W ELECTRONIC EQUIPMENT (ELEX)
 VI 88-057 VALVE-GLCBE
 VJ 88-036 VALVE-CHECK
 VK 88-175 VALVE-SPECIAL
 VL 88-C19 VALVE-PILOT AND LINE PRESSURE OPERATEC. CIAPHRAGM AND PISTON TYPES
 VM 88-171 VALVE-RELAY AIR. DIAPHRAGM AND PISTCH TYPES
 VN 88-026 VALVE-EXPANSION
 VO
           NOT ASSIGNED
 VP 88-212 VALVE-FLOAT
 VQ 88-024 VALVE-FUEL GIL REGULATING
 VR 88-013 VALVE-GATE. ALL TYPES EXCEPT HYDROCARBON FUEL SERVICE
 VS VS-
            SIGNALING ECUIPMENT-VISUAL (ELEX)
 VT 88-124 VALVE-LINEAR. DIRECTIONAL CONTROL
 VU 88-189 VALVE-INSTANTANECUS HEATER
 VV 88-071 VALVE-NEEDLE
 VW 88-217 VALVE-PILOT CONTROL. BELLOWS AND SCLENGIO OPERATED
 VX 88-033 VALVE-PLUG
 VY 88-020 VALVE-PRESSURE REGULATING. STEAM SERVICE
 VZ 88-025 VALVE-FLUSH
 VO 88-102 VALVE-ROTARY. DIRECTIONAL CONTROL
 VI 88-176 VALVE-EXHAUST AND RELIEF
 V2 89-191 VALVE-FEEDWATER REGULATING
 V3 87-C13 VALVE - SEA. UNDERWATER LOG
 V4 88-152 VALVE-MAIN BALLAST
 V5 88-144 VALVE-MANIFOLD (EXCLUDES VALVE AND TRAP MANIFOLDS)
 V6 88-216 VALVE-SCLENCIO
 V7 88-010 VALVE-TEMPERATURE REGULATING. AUTCMATIC OPERATION
 VS 89-166 VALVE-HINGE TYPE
 V9 88-055 VALVE-Y
 WA 91-001 WASHING MACHINE - LAUNDRY
 WB 41-086 WELDING AND BRAZING MACHINE - BAND SAW BLADE
 WC 82-002 WELDING MACHINE - RESISTANCE
           CABLE. 2 CONDUCTOR. NON-RF (FLEX)
 WO WO-
 WE 82-005 WELDING MACH-ARC.ADJUST.CONST VLTG CR CCNST CURR TRANSFCRER RECTIFIE
 WF WF-
           CABLE. 4 CONDUCTOR. NON-RF (ELEX)
 WG 82-001 WELDING SET - TUNGSTEN ARC. INERT GAS SHELDED. NONCONSUMABLE ELECTROCE
 WH 82-004 WELDING SET - ARC.INERT GAS SHIELDED. CONSUMABLE ELECTRODE
 WI
           NOT ASSIGNED
 WJ 82-007 WFLDING SET - STUD. ELECTRIC ARC
 WK 62-001 WINCH - HAND CPERATED
 WL 62-002 WINCH - STEAM OPERATED
 WY WM-
           CABLE. MULTIPLE CONDUCTOR. NON-RF (ELEX)
 WN 62-004 WINCH - ELECTRC - HYDRAULIC
           NOT ASSIGNED
 WP 62-006 WINCH - ENGINE DRIVEN. GASOLINE OR CIESEL
 WO 62-007 WINCH - PNEUMATIC DRIVE
 WR 41-087 WINDING MACHINE COIL
           CABLE. SINGLE CONDUCTOR. NON-RF (ELEX)
 WS WS-
 WT WT-
           CABLE. 3 CONDUCTOR. NON-RF (ELEX)
 WU 63-CC3 WINDLASS - ELECTRICAL MECHANICAL SEE ALSO ANCHOR HANDLING ACCESSORIES
 WV 63-004 WINDLASS - HAND CPERATED SEE ALSO ANCHOR HANGLING ACCESSCRIES
 WW 31-025 WINDOW - CRSERVATION. OPTICAL. PORTLIGHT
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CDC LAPL
  WX 99-OCI WINDOW - NON ICING
  WY 35-001 WIPER-WINDOW PNLM. RTY OR VERT TYPE. ELEC OR MNL (HM&E/ORD)
 WZ 35-002 WIPER - WINDOW. PENDULUM TYPE. PNEUMATIC
            FIRING CUTOUT ASSY-WEAPON SYSTEM
  MO
            CARRIAGE ASSEMBLY-WEAPON SYSTEM
  WL
  W2
            STAND ASSEMBLY-WEAPON SYSTEM
  W3
            SLIDE ASSEMBLY-WEAPON SYSTEM
  W4
            RAMMER ASSEMBLY-WEAPON SYSTEM
            HOUSING ASSEMBLY-WEAPON SYSTEM
  W5
  46
            GUN BARPEL ASSEMBLY-WEAPON SYSTEM
  W7
            GAS EJECTOR ASSEMBLY-WEAPON SYSTEM
  84
            EMPTY CASE EJECTCR ASSY-WEAPON SYSTEM
  W9
            HOIST ASSEMBLY-WEAPON SYSTEM
  XA COO
            COMPRESSOR GAS TURBINE REPAIR PARTS
            BULKHEADS-STRUCTURAL
  X8
  XC.
            CANVAS
            DECK COVERINGS
  XD
  XE E34
            MISCELLANEOUS FLAG ALLOWANCES. MESSING GEAR
  XF C36
            SURVIVAL EQUIPMENT
            LIFTING AND HANDLING GEAR MAIN AND AUXILIARY MACHINERY
  XG C41
  XH C43
            TOOLS AND ACCESSCRIES MAIN PROPULSION SHAFTING
  XI C38
            ENVIRONMENTAL CONTROL SYSTEM APPLIANCES
            PUMPS. PORTABLE
  XJ C47
            BOILER TOOLS AND ACCESSCRIES
  XK C51
  XL C58
            TOOLS AND ACCESSCRIES DISTILLING PLANT
  XM C59
            TOOLS AND ACCESSCRIES REFRIGERATION SYSTEM
  XN
            DOCK-NON STRUCTURAL
  XO
            NOT ASSIGNED
  XP C48
            HOSE AND MISCELLANEOUS HOSE FITTINGS
  X0 C61
            TOOLS AND ACCESSCRIES GENERATORS
  XR C18
            RIGGING
            SHEATHING
  XS
  XT C62
            TOOLS AND ACCESSCRIES ELECTRIC POWER DISTRIBUTION
            LIGHT EXTENSION
  XU C64
  XV C65
            PORTABLE INTERIOR COMMUNICATION ECUIPMENT
  XW C66
            LIGHT SIGNAL FCRTABLE
            ELECTRICAL AND ELECTRONIC HAND TOOLS
  XX C67
  XY C69
            ICIC SUPPORT EQUIPMENT
  XZ C70
            FLAGS AND PENNANTS
  XO C75
            ASROC/TERPEDE/MINE HANDLING
  XI
            DECK
  X2
            DOME-SCHARISTRUCT AND NON STRUCT)
  X3
            BALLAST
  X4
            PLATFORM DECK
  X5
            FLAT
  X6 C77
            NBC WARFARE EQUIPMENT
  X7 CBL
            MINESWEEPING EQUIPMENT
  X8 C83
            AIRCRAFT HANCLING AND STOWAGE
            PROJECTION ECUIPMENT AND ACCESSORIES
  X9 C85
  YA 54-009 TABLE-LITHOGRAPHIC LAYOUT
  YB 60-006 STEERING GEAR
  YC 46-CLL TRITIUM AIR MCNITOR
  YD 85-C36 TROLLEY - MONCRAIL AND BI-RAIL
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YE 85-018 TRUCK/DOLLY/ CRADLE ASSEMBLY SEE ALSC CARGO HNDL ACCY (HM&E/ORD)

CDC LAPL YF 41 :39 TUBE AND FLUE CLEANER - AIR MOTOR CRIVEN .G 41-140 TURE AND FLUE CLEANER - ELECTRIC MCTCR DRIVEN YH OS-OCL TURBINE-SIEAM. MAIN PROPULSION NOT ASSIGNED YJ 61-029 CONTROL PANEL-AUTOMATIC OR MANUAL YK 61-048 ELECTRONICS SUB-ASSEMBLIES YL 82-063 WELDING MACHINE - ARC. DRIVEN BY GAS CR DIESEL INTERNAL COMBUST ENGIN YM 61-C65 INDUCTOR-VERNIER YN 82-006 WELDING MACHINE - ARC. ELECTRIC MOTOR DRIVEN YO NOT ASSIGNED YP 62-003 WINCH - ELECTRIC YO 63-001 WINDLASS - STEAM DRIVEN SEE ALSO ANCHOR HANGLING ACCESSORIES YR 05-006 TURBINE-STEAM. AUXILIARY YS C5-C22 TURBINE - WATER CRIVEN YT 05-028 TURBINE - GAS. PROPULSION AND AUXILIARY SERVICE OVER 2000 HORSEPOWER YU 05-029 TURBINE - GAS. PROPULSION AND AUX SERV 2000 HORSEPOWER OR UNDER YV 05-025 TURBINE AND FAN. INTEGRAL FORCED DRAFT AIR SERVICE FOR MAIN BCILER YW C5-019 TURBINE CONTROL - PROPULSION YX 05-024 TURBO/SUPERCHARGER - DIESEL ENGINE YY 85-003 TURNTABLE - TROLLEY OR BALL TYPE, MANUAL OR POWER DRIVEN YZ 85-009 TORPEDO HANDLING UNIT (HMEE/ORD) YO C12 HULL FITTINGS. LASHING GEAR AND ACCESS CLOSURES Y1 53-002 CAPSTAN-POWER CPERATED. ELECTRIC OR HYDRAULIC Y2 63-002 WINDLASS - ELECTFIC HYDRAULIC SEE ALSC ANCHOR HANDLING ACCESSORIES Y3 C87 TEST. MEASURING AND INDICATING EQUIPMENT Y4 C90 RADIATION MONITORING AND COUNTERMEASURES Y5 C93 SHIPBOARD FIREFIGHTING AND ACCESSORIES Y6 400 DROMANCE TOCLS AND ACCESSORIES (AEL/CRD) ¥7 Y8 C94 SALVAGE TOOLS AND EQUIPMENT Y9 C95 DIVING EQUIPMENT ZA 61-086 STAND.CONTROL-STEERING 28 61-087 STAND. CONTROL PROPULSION ZC 91-009 STARCH CCCKER-LAUNDRY ZD 61-482 VALVE OPERATOR-HYDRAULIC OPERATOR ZE 34-001 STARTER-ENGINE. ELECTRICAL ZF 34-002 STARTER-ENGINE. HYDRAULIC ZG 34-0C3 STARTER-ENGINE. CIRECT COMBUSTION ANC/OR GAS TURBINE ZH 34-005 STARTER-ENGINE.AIR MOTOR OR AIR TURBINE TYPE NOT ASSIGNED ZJ 60-001 STEERING GEAR-ELECTRO-HYDRAULIC.MARINE.LINK.TILLER TY P ZK 60-003 STRNG GEAR-ELEC MCH.MRN.DRMECBL/CBLECC.GREGC.HND OP TY ZL 60-007 STEERING GEAR-ELECTRIC. STEER MOTOR-CHAIN DRIVE TYPE ZM ZM-IMPEDANCE MEASURING DEVICES (ELEX) ZN 60-008 STEERING GEAR-EMERGENCY SUBMERSIBLE TYPE 20 NOT ASSIGNED ZP 61-027 STEERING HEAC-GYROPILOT 20 54-020 STITCHER-BOOK AND PAMPHLET ZR 64-005 STRAINER-PRESSURE.FIRE HOSE WITH BALL VALVE 25 64-014 FIRE EXTINGUISHING SYSTEM-THIN AGENT 2T C99 TOOLS AND EQUIPMENT MISCELLANEOUS ZU 64-015 FIRE EXTINGUISHING UNIT-DRY CHEMICAL DSRV RESCUE CENTROL CENTER

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ZV 039

ZW 64-016 NOZZLE ASSEMBLY-TWIN AGENT

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CDC LAPL
 ZX 41-113 SAND MULLER
 ZY 75-OCL STRAINER-SEDIMENT
            MISCELLANFOUS ITEMS NOT CTHERWISE CCCED
            MISCELLANEOUS FLAG ALLOWANCES. NAVIGATION INSTRUMENTS
 20 E24
 ZI 61-072 CONTROL-HUMICITY
 22 41-129 SURFACER-WEODWERKING
 23 85-027 SWAY BRACE ASSEMBLY-ELECTRIC CHAIN HOIST DRIVE
 24 89-005 SWIMMERS RECEVERY SYSTEM
 25 E36
            MISCELLANEOUS FLAG ALLCWANCES. VACUUM CLEANER
 26 61-074 COMPUTER-SHIPBCARD
 27 E85
            MISCELLANEOUS FLAG ALLCWANCES. PROJECTION EQUIPMENT
 28 61-389 BELLOWS ASSEMBLY-PRESSURE RELIEF
 29
            NOT ASSIGNED
            NOT ASSIGNED
 QA
 80
            NOT ASSIGNED
 OC
            TELEMETERING SETS
 00
            NOT ASSIGNED
 OF
            NOT ASSIGNED
 OF
            NOT ASSIGNED
 OG
            NOT ASSIGNED
            NOT ASSIGNED
 DH
 10
            NOT ASSIGNED
 01
            NOT ASSIGNED
 CK
            NOT ASSIGNED
 OL
            NOT ASSIGNED
 MO
            NOT ASSIGNED
 ON
            NOT ASSIGNED
            NOT ASSIGNED
 00
            NOT ASSIGNED
 OP
            NOT ASSIGNED
 CQ
            ORDALTS AND CRONANCE MODIFICATIONS-CTHER THAN SWITCHBOARC
 OR OR
 OS RS
            ORDALTS AND CRONANCE MODIFICATIONS-SWITCHBOARD ONLY
 OT
            NOT ASSIGNED
 OU
            NOT ASSIGNED
            NOT ASSIGNED
 OV
 OW
            NOT ASSIGNED
 OX
            NOT . ASSIGNED
 OY
            NOT ASSIGNED
            NOT ASSIGNED
 07
 OO NLAPLW NLAPLW-ITEM LISTED BY SPCC AS NOT LAPL WORTHY
 OO INCOMP INCOMP-ITEM LISTED BY SPCC AS INCOMPLETE
 OL O6-OCL COMPRESSOR-RECIPROCATING. OTHER
 02 06-CC4 COMPRESSOR-CENTRIFUGAL. REFRIGERATION
 03 06-201 COMPRESSOR-RECIPROCATING. AIR. HIGH. PRESSURE
 04 06-202 COMPRESSOR-RECIPROCATING, AIR, LOW, PRESSURE
 05 06-2C3 COMPRESSOR-CENTRIFUGAL. AIR. LOW PRESSURE
 06 C6-2C4 COMPRESSCR-RCTARY. AIP. LOW PRESSURE
 O7 C6-5C1 COMPRESSCR-VAPCR ROTARY
            AVIATION ORDNANCE EQUIPMENT
 08
 09 04-001 CONDENSER-REFRIGERATION. WATER. COOLEC
 IA
            VALVE-SCUPPER (INCL. DECK DRAIN VALVES)
 18 41-004 BOOTH-SPRAYING
 1C 39-005 CLUTCH-FRICTICN
 10 837
            PROPANE GAS AND CYLINDERS
            MACK
 1F 14-007 FUSE UNIT ASS
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CDC LAPL
  16 41-045 GRINDING MACHINE-UTILITY (INCL BUFFNG CAPABILITY)
  1H 76-006 HYPOCHLCRINATION UNIT
            NOT ASSIGNED
  1J 01-012 PUMP-FUEL. ALL TYPES INCLUDING ELECTRIC CRIVE DESIGN
  1K 54-001 PUNCHING MACHINE-PAPER
  IL 61-049 SYNCHRO-RECEIVER. TRANSMITTER. RECEIVER. TRANSMITTER
  1M 17-018 MOTOR-AC/OC MAIN PROP. UNLIMITED HERSEPCHER
  IN C32
            FURNISHINGS AND CUTFITTINGS
  10
            NOT ASSIGNED
  1P 39-003 POWER TAKE CFF-ACCESSORY DRIVE
  10 01-005 PUMP-POTARY. PCWER DRIVEN
  IR 43-057 RINSER-SANITIZER
  15 86-GC1 SINK-PHOTOGRAPHIC PROCESSING
  17 01-013 PUMPING UNIT-CENTRIFUGAL. POWER DRIVER. AIRCRAFT FUELING
  10
            HEAD-SPRINKLER-FIRE PROTECTION
  IV 88-004 VALVE-SAFETY RELIEF. MAIN PROPULSION BOILER
            NOT ASSIGNED
  IW
  1X 52-014 CYLINDER-ACTUATING LINEAR SEE ALSO JACK ASSEMBLY/SHCK AB
  1Y 57-0C8 CRANE-ASROC MISSILE
  12
            NOT ASSIGNED
            NOT ASSIGNED
  10
  11 C4-1CO CONDENSER-STEAM. ALL TYPES
  12 01-003 PUMP-CENTRIFUGAL. MAIN CONDENSER CIRCULATING
  13 01-004 PUMP-RCTARY. PCWER DRIVEN. CAM AND PLUNGER CESIGN
  14 C1-006 PUMP-ROTARY. POWER DRIVEN. IMPELLER CESIGN WITH TIMING GEARS
  15 01-007 PUMP-RCTARY. PCWER DRIVEN. EXTERNAL GEAR DESIGN
  16 32-009 CONDENSING UNIT-REFRIGERATION
  17 99-023 CONNECTOR-ELECTRICAL SEE BOX-ELECTRICAL
  18 61-030 CONSOLE-CONTROL AND POWER
  19 C9-004 CONTROL-BATTERY CHARGER
            LAUNCHING SYSTEM (MISSILE/ROCKET)
  24
  28 99-008 BOX-ELECTRICAL (HM&E/CRD)
  2C 39-006 CLUTCH-MAGNETIC
 20 844
            PROPELLER. SPECIAL TOOLS AND HANDLING GEAR
            LAUNCHERS (MISSILE/RCCKET)
  2E
  2F 850
            GOVERNOR OVERSPEED SPARES
  2G 25-024 GYRO COMPASS-ARMA MK 7.8.9.10.21.22.24. 8 26
  2H 31-003 HATCH COVER
  21
            NOT ASSIGNED
  2J
            ANTI-ICING SYSTEM
  2K 41-074 PUNCHING. SHEARING. AND NIBBLING MACHINE-METAL
  2L 32-034 SEPARATOR-DIL. REFRIGERANT
  24 41-C89 MOTOP-PNEUMATIC
  24 83-037 OIL DISTRIBUTION SOX OR OIL INJECTOR ASSEMBLY
  20
            NOT ASSIGNED
  2P 52-047 POWER UNIT-HYDRAULIC
  20 39-001 CLUTCH-POSITIVE CRIVE AND ROTATING ELEMENT
  2R 41-075 RIVETING MACHINE-ELECTRIC OR PNEUMATIC
  2S 41-082 SKIVING AND BEVELING MACHINF-SHOE.SOLE.HAND OPERATED
  2T 41-085 THREADING MACHINE-PIPE AND BOLT SEE ALSC SHOP ACCESSORIES-TOOLS X ECF
  20
            MAGAZINES-WEAPCN SYSTEM
  24
            GUN MOUNTS
  2W
            NOT ASSIGNED
  2X
            CASTING
  2Y 57-009 CRANE-ELECTRC HYDRAULIC
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CDC LAPL
  22 21-011 SWITCH-FLOAT. LICUID LEVEL. FLOW DETECTING
  20 61-008 CONTROL-STEERING SYSTEM
  21 61-009 CONTROL-MECHANICAL
            NOT ASSIGNED
  22
  23 61-015 CONTRCL-NAVIGATIONAL LIGHT
  24 61-022 CONTROL-ACGUSTIC DEVICE
  25 61-024 CONTROL-MECHANICAL PUSH PULL STROKE
  26 61-026 CONTROL-ELECTRIC LIGHT
  27 61-040 CONTROL-VALVE CPERATOR
  28 61-064 CONTRCL-HUMICITY
29 61-067 CONTROL-REMOTE TRANSMITTERS AND RECEIVERS
            NOT ASSIGNED
  34
  38 80-001 BRAKE-ELECTRIC. SHOE OR DISC. SOLENOID
  3C 39-007 CLUTCH-MAGNETIC PARTICLE
  30 841
            PROPULSION MAIN CRIVE DIESEL ENGINE ECUIPMENT AND ACCESSORIES
  3F.
             NOT ASSIGNED
  3F
             FRAME-STRUCTURAL
  3G 25-028 GYRO COMPASS-SPERRY MK 11. 14. 17. 18. & 19
            NOT ASSIGNED
  3H
  31
            NOT ASSIGNED
  3J 21-018 SWITCHING UNIT-PCWER TRANSFER
  3K 76-001 PURIFIER-CENTRIFUGAL
  3L 93-009 SEPARATOR MOISTURE
  3M 52-046 MOTOR-HYDRAULIC
  3N 01-018 PUMP-CENTRIFUGAL. SINGLE STAGE. CLCSE-CCUPLEC. NAVY STD
            NOT ASSIGNED
  30
  3P 61-091 POWER UNIT-GYRC PILOT
  30 01-009 PUMP-ROTARY. POWER DRIVEN. VANE DESIGN. FIXED CR VAR DELIVERY
  3R 87-002 RODMETER-UNDERWATER LCG SYSTEM
  35 32-020 SODA FOUNTAIN
  3T 61-056 THRUSTOR-MOTOR CRIVEN. HYDRAULICALLY CPERATED
            DISTILLING PLANT ACCESSORIES
  3U 858
  3V 16-016 VAPOPIZER SYSTEM - LIQUID DXYGEN OR NITROGEN
  3W AN/ C CARRIER
  3X C6-OC5 COMPRESSOR-RECIPACCATING. REFRIG. VERT OPR.SEMI-HERM
  3Y 57-010 CRANF STERN
  3Z AN/ D RADIAC
  30 61-071 CONTROL-PHOTOELECTRIC CELL
  31 61-079 CONTRCL-CONSTANT FREQUENCY
  32 61-096 CONTROL-TRANSMISSION REVERSING MECHANISM
  33 61-108 CONTROL-PERISCOPE
  34 61-110 CONTRCL-SENSCR. CEPTH AND TRIM
  35 61-402 CONTROL-FLAME FAILURE
  36 61-444 CONTROL-GENERATOR. CCOLER FEEDWATER
  37 61-481 CONTROL-SERVC. CONTROLLABLE PITCH PROPELLERS
  38 87-0C4 CONTROL-UNDERWATER LOG
  39 61-019 CONTROL TRANSMITTER-PRESSURE DIFFERENTIAL
  44 AN/ G TELEGRAPH OR TELETYPE
  48
             BULKHEAD-NONSTRUCTURAL
  4C 39-013 CLUTCH- ALL CTHER TYPES
4D 31-019 DOOR-MISSLE TUBE
  4E ANY I INTERPHONE AND PUBLIC ADDRESS
             FORGING
  4F
  4G 25-039 GYRO COMPASS-SPERRY MK 23 AND 27
  4M AN/ J ELECTROMECHANICAL OR INERTIAL WIRE COVERED
             NOT ASSIGNED
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CDC LAPL
  4J 22-001 SHITCHBRARD-DEGAUSSING
  4K 61-012 CONTROL-DEGAUSSING
  4L 61-011 SERVE GEAR TRAIN
  44 18-001 MOTOR GENERATOR
  4N 31-002 OPERATING MECHANISM-DOCK-RAMP. STERNGATE & BRIDGE
            NOT ASSIGNED
  4P 41-069 PRESS-GROMMET AND EYELET
  40 AN/ K TELEMFTFRING (ELEX/ORD)
  4R 31-019 RUDDER-INCLUDING STOCKS. POSTS AND CARRIERS
  45 41-127 SOLDER AND CESCLEER UNIT-ELECTRIC
  4T 61-005 TIMER
  4U AN/ L COUNTER YEASURES
  4V 43-014 VEGETABLE PEELING MACHINE - ELECTRIC
  4W AN/ M MFTECROLOGICAL
  4X C33
            CLOTHING STANDARC OUTFIT. AIR PURIFICATION AND LIFE PRESERVERS
  4Y 57-011 CRANF-HEAVY ECUIPMENT
  42 01-019 PUMP CENTRIFUGAL . POWFR DRIVEN . PERIPHERAL CESIGN
  40 61-075 CONTROL-STEERING AND DIVING ASSEMBLY
  41 61-C62 CONTROL-PNEUMATIC
  42 61-066 CONTROL-TELEMOTOR STEERING
  43 61-C89 CONTROL-SPLIT PLANE
  44 61-132 CONTROL-FEED WATER SYSTEM
  45 61-251 CONTROL- PRESSURE. TEMP. LEVEL AND FLOW
  46 83-040 CONTROL-CONTROLLABLE PITCH PROPELLER
  47 15-002 CONTROLLER/STARTER. AC
  48 AN/ N SOUND IN AIR
  49 AN/ P RADAR
  SA ANY O SONAR AND UNDERWATER SCUND
  58 80-002 BRAKE-ELECTRIC. MOTOR CPERATED
  SC 43-C15 COFFEF MAKER
  50 31-017 DOOR-HINGED TYPE. POWER OPERATED
  SE AN/ R
            RADIO
            FOUNDATION
  SF
  5G 25-008 GYRO COMPASS EQUIPMENT-AMPLIFIER-SYNCHRO SIGNAL
  SH AN/ S SPECIAL TYPES MAGNETIC. ETC.. CR CCMBINATIONS OF TYPES
  51
            NOT ASSIGNED
  5J 22-002 SWITCHBOARD-INTERIOR COMMUNICATION
  5K
            PLATFORM-SERVICE
            STRUCTURE-DECKHOUSE
  SM AN/ T TELEPHONE (WIPE)
  SN 28-009 OPTICAL NAVIGATIONAL AIDS ALSO SEE SPECIFIC EOPMT
  50
            NOT ASSIGNED
  5P 41-058 PRESS-HYDRAULIC. MANUAL CR POWER CPERATED
  50 01-008 PUMP-ROTARY. PCWER DRIVEN. INTERNAL GEAR DESIGN
            HYDRAULIC SYSTEM TOOLS AND REPAIR PARTS
  5R 821
  55 41-126 SOLDERING AND BRAZING OUTFIT. ELECTRIC
  ST
            TRUNK-STRUCTURAL
  SU AN/ V VISUAL AND VISIBLE LIGHT
  5V 87-007 VENT. AIR - U/W LOG EQUIPMENT
  SW AN/ W ARMAMENT (PECULIAR TO ARMAMENT, NOT CTHERWISE COVERED)
  5x 01-021 PUMP-CENTRIFUGAL, TURBINE DRIVEN, GASCLINE SERVICE
  SY 57-013 CRANF-GANTRY
  52 862
            PORTABLE STORAGE BATTERIES AND POWER DISTRIBUTION ACCESSORIES
  50 AN/ X FACSIMILE OR TELEVISION
  51 AN/ Y DATA PROCESSING
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CDC LAPL
            AUTOMOTIVE & CONSTRUCTION EQUIPMENT (INCL ALL COMMODITY CLASS 95)
  52
  53
            MISC. PARTS LISTS FOR SHIPS (INCL ALL APLS STARTING WITH 89000)
            MAINTENANCE & REPAIR SHIP EQUIPMENT (INCL ALL COMMODITY CLASS 12)
  55
            CHEMICAL WARFARE EQUIPMENT (INCL ALL COMMODITY CLASS 47)
            SICK-RAY EQUIPMENT LINCL ALL COMMCDITY CLASS 841
  56
  57 OL-020 PUMP-CENTRIFUGAL. POWER DRIVEN. HCRIZCNTAL. SPLIT CASE DESIGN
            RIGGING & RIGGING GEAR LINCL ALL CCMMCDITY CLASS 901
  58
  59
            CONSTRUCTION EQUIPMENT (INCL ALL COMMODITY CLASS 96)
  6A 99-015 ARRESTOR-ELECTRICAL
  6B 01-028 PUMP-CENTRIFUGAL. TURBINE DRIVEN. HCRIZCNTAL. CLOSE-COUPLED
  6C 54-023 COLLATOR
  60 31-008 DOOR-METAL SLIDING
            SPECIAL POWER PLANT EQUIPMENT (INCL ALL COMMODITY CLASS 98)
  6E
  6F
            NOT ASSIGNED
  6G 25-010 GYRO COMPASS EQUIPMENT-ALARMS-AUDIBLE & VISIBLE
            NOT ASSIGNED
  61
            NOT ASSIGNED
  6J 22-004 SWITCHBRARD-PRCPULSION
  6K
            PYROTFCHNIC EQUIPMENT
  6L
            SFA CHESTS
  6M E99
            MISCELLANEOUS FLAG ALLOWANCES. FURNITURE AND MISC. EQUIPMENT
  6N 87-012 OSCILLATOR AND AMPLIFIER-U/W LOG ECUIPMENT
            NOT ASSIGNED
  6P 41-100 PRESS-ARBOR. MANUAL OPERATION
  60
            NOT ASSIGNED
  68
            NOT ASSIGNED
  65 61-046 SOLENOID-ELECTRIC
  6T 43-026 TOASTER-ELECTRIC
            NOT ASSIGNED
  6V 31-020 VENTILATER - DECK
  6W
            NOT ASSIGNED
  6X 816
            ACCESS CLOSURES CPERATING SPARES
  6Y 57-016 CRANE-KINGPOST
            NOT ASSIGNED
  60 15-010 CONTROLLER. CC
            NOT ASSIGNED
  61
  62 25-014 CONVEPTER-SIGNAL DATA
  63 01-022 PUMP-CENTRIFUGAL. POWER DRIVEN. FCR CCMMERCIAL DISHWASHING MACHINE
  64 01-023 PUMP-CENTRIFUGAL. POWER DRIVEN. SUBMARINE TRIM AND DRAIN SERVICE
  65 59-06 CONVEYOR-POWER OFERATED. BELT OR VERTICAL TRAY TYPE
            NOT ASSIGNED
  66
  67 03-001 COOLER-FLUID. SHELL/TUBE CONSTRUCTION
  68 01-026 PUMPING UNIT-CENTRIFUGAL. ELECTRIC MCTOP DRIVEN. FOR STEAM SYSTEMS
  69 03-0C2 COCLER-FLUID. TYPE B
  74
            APPENDAGES-SHELL
  78 80-003 BRAKE-PREUMATIC
  7C 41-GC9 COLLECTOR UNIT-DUST
  7D 43-C54 DOUGH INTERMEDIATE PROCFING MACHINES
  7E
            NOT ASSIGNED
  7F
            NOT ASSIGNED
  7G 25-011 GYRO COMPASS EQUIPMENT-CABINET-GYRC & GUID CCMP STOR
            NOT ASSIGNED
  7H
  71
            NOT ASSIGNED
  7J 22-009 SWITCHBCARD-ALARM
            NOT ASSIGNED
  7K
  7L
            STANCHIONS
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CDC LAPL 7M 51-UC6 MIJUNT-RESILIENT 7N 41-090 OVEN-THERMAL DRYING. ELECTRIC NOT ASSIGNED 70 7P 44-008 PRESSURE REDUCING STATION 70 NOT ASSIGNED 7R NOT ASSIGNED 75 81-OCL SOOT BLOWERS TORPEDO TUBE ASSEMBLY 71 7U NOT ASSIGNED 7V 61-054 VFRTICAL REFERENCE NOT ASSIGNED 7W NOT ASSIGNED 7X 7Y 41-039 CUT-OFF MACHINE-ABRASIVE DISK. METAL CUTTING 72 21-023 SWITCH-PRESSURE AND/CR THERMOSTATIC 70 03-003 COOLER-FLUID. FNGINE JACKET WATER HULL MCUNTEC 71 03-004 COCLFR. FLD SMPL WTR TYPE I SHL/CL DSN. TYP II DB TB 72 C3-006 COOLER. AIR 73 03-011 COOLER-FLUID. RACIATOR ENGINE COOLART 74 03-015 COOLER-AMINE 75 32-011 COOLER-AIR FLCW UNIT 76 32-010 COOLING COIL-AIR. DUCT TYPE AND GRAVITY TYPE 77 46-OC5 COUNTERS AND TOTALIZERS NOT ASSIGNED 78 79 51-001 COUPLING-FLEXIBLE. SCUND ISOLATION NOT ASSIGNED 84 88 80-0C4 ERAKE-MANUAL 8C 28-012 CCMPASS COMPENSATING EQUIPMENT 80 43-018 DOUGH MIXING MACHINES 8E NOT ASSIGNED 8F NOT ASSIGNED 8G 25-021 GYRO CCMPASS EQUIPMENT-RELAY TRANSMITTER NOT ASSIGNED AH NOT ASSIGNED 81 8J 22-013 SWITCHBCARD-POWER 8K NOT ASSIGNED 8L 878 AMMUNITION HANCLING AND STOWAGE 8M 86-014 MCUNT-FILM SLIDE . PHOTEGRAPHIC 8N 43-019 RANGES AND OVENS-DIL BURNING-SEE ALSC GALLEY EOPMT NOT ASSIGNED 8P 29-003 PRIMER-ENGINE STARTING. ETHER INJECTION 80 01-002 PUMP-RECIPROCATING. DIRECT ACTING AND POWER DRIVEN 88 NOT ASSIGNED 85 25-017 STABILIZER-GYRC 8T 67-009 TOILET-MARINE RU NOT ASSIGNED 8V 26-004 VIEWER - STILL PICTURE NOT ASSIGNED 8X NOT ASSIGNED 8Y 02-004 BOILER-AUXILIARY. HP STEAM. OIL FIRED 21-0C6 SWITCHES-GENERAL 80 01-032 PUMP UNIT-CENTRIFUGAL. POWER DRIVEN. PORTABLE (SELF-CONTAINED) 81 78-OC1 CCUPLING-FLEXIBLE. SHAFT 82 01-034 PUMPING UNIT-HYDRAULIC. AIR DRIVEN 83 NOT ASSIGNED 84 01-035 PUMP-CENTRIFUGAL. PHR DRIVEN. (MULTI-STAGE) VERT DEEPWELL TURB DESIGN

85 01-036 PUMP-JET. MAIN PROPULSION

CDC LAPL 66 C1-C37 PUMP-RECIPROCATING. AIR DRIVEN. MISCELLANEOUS SERVICE 87 78-004 COUPLING-FLEX. SHFT. AUXILIARY SERVICE 88 02-002 BOILER-AUXILIARY. HP STEAM. WATER TURE 89 02-003 BOILER-AUXILIARY. HP STEAM. HORIZONTAL FIRE TUBE 94 NOT ASSIGNED 98 80-0C5 BRAKE-HYDRAULIC COMPARTMENT 90 43-032 DOUGH PRCCESSING MACHINE-POWER AND MANUAL 9E NOT ASSIGNED NOT ASSIGNED 9G 41-066 GRINDING MACHINE-TOOLS & CUTTERS SH NOT ASSIGNED NOT ASSIGNED 91 9J 22-021 SWITCHBOARD-STATIC GROUP CONTROL 9K NOT ASSIGNED 9L SMALL ARMS SM 79-OC1 MUFFLER 91 GRATINGS. FLCCR PLATES 90 NOT ASSIGNED 9P 86-002 PRINTER-PHOTOGRAPHIC 90 NOT ASSIGNED NOT ASSIGNED 9R 95 31-029 STABILIZER-ACTIV FIN. RETRCTBLE & NCNRETRCTBLE TOWING GEAR 9T C25 90 NOT ASSIGNED 9V 86-006 VIEWER PRINTER - MICROFILM NOT ASSIGNED 94 9X NOT ASSIGNED 9Y 54-013 CUTTER-PAPER. GUILLOTINE 92 NOT ASSIGNED 90 NOT ASSIGNED 91 820 WINCHES AND CAPSTANS REPAIR PARTS 92 78-011 COUPLING-RIGID. SHAFT 93 79-009 COUPLING-HYDRAULIC 94 78-012 COUPLING-CLAMP PIPE 95 78-013 COUPLING-ELECTRIC INDUCTION 96 93-018 COUPLING-HOSF. MISC SEE ALSO UNDWAY REPLEN ACC 97 57-OCL CRANE-BRIDGE CR CVERHEAD TRAVELING 98 57-0CZ CRANE-QUARTER 99 57-0C3 CRANE-JIB